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*UNIVERSITY
REGULATIONS*

*Standards
for
Students*

University of Michigan Official Publication

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The University of Michigan

*Standards
for
Students*

(REVISED TO SEPTEMBER, 1963)



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To that end, the University has established high standards and regulations governing student conduct, both academic and nonacademic, and expects its students to strive to achieve comparably high performance in each area. By voluntary enrollment in the University, the student acknowledges *his* correlative responsibility to the University's goal and assumes an obligation to abide by the laws of the community and by the duly promulgated rules of the University, which may be superimposed upon his civil rights.

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I. REGULATION CONCERNING UNIVERSITY STUDENTS

All men and women registered as students on the University of Michigan campus are expected to be aware of all University rules and regulations and are expected to take all reasonable measures to attain and promote its high standards inside and outside the classroom and in compliance with civil regulations. (*For City and State Ordinances, see Appendix.*)

II. REGULATIONS CONCERNING MEN AND WOMEN LIVING IN UNIVERSITY ORGANIZED HOUSING

University organized housing units include the following:

- 1.) University residence halls,
- 2.) Fraternity and Sorority Houses,
- 3.) Co-operative Houses,
- 4.) Other residences recognized by the University in which student groups live.

Standards of Conduct

Members and officers of student living units or student organizations and staff will be held responsible for the conduct of members and guests and are expected to take all reasonable measures to promote high standards consistent with good taste and in compliance with civil and University regulations.

Calling Hours

Calling hours for the opposite sex in University organized housing units may be determined by each housing unit within the limits of twelve noon until the regularly established closing hours in women's residences Monday through Friday and from 10 A.M. until the regularly established closing hours in women's residences on Saturday and Sunday. This regulation applies only to casual calls and not to social functions. Hours for the latter shall be submitted for approval to the Office of Student Affairs.

Dress

Regulations and standards of dress may be decided by the individual University housing units with the approval of the Office of Student Affairs and will be enforced by the appropriate authorities.

Explosives

University policy concerning explosives of any type is consistent with state and local regulations and the use or presence in student quarters is not permitted. (*For City and State Ordinances, see Appendix.*)

Guests

Visitors of the opposite sex are restricted to the communal living areas which are open to guests in the individual housing units.

Intoxicants

University policy is consistent with state and local regulations. The use or presence of intoxicants is not permitted in student quarters. (See *Appendix.*)

Quiet Hours

Quiet hours in University organized housing units may be determined by each unit and enforced by the appropriate authority.

III. UNIVERSITY REGULATIONS CONCERNING WOMEN STUDENTS

Senior Privileges

The following privileges are granted to qualified senior women. All other University regulations remain in effect.

1. A senior woman may determine the hour of return to her residence, except after a University vacation period when she must return by the official closing hour of her residence. This is a privilege and should be used within the limits of good judgment. If a housing unit desires to set an hour of return for its seniors, it may do so. This privilege does not extend to overnight permission.
2. A senior woman may sign out for "overnight pers" during the week as well as on the weekend.
3. A senior woman may be an overnight guest in a non-University residence of an Ann Arbor hostess.

Qualifications for Senior Privileges

Senior Privileges are granted to those women:

1. Who have credits or courses for 3 full academic years as determined by their school or college and/or are 21 years of age.
2. Whose parents have submitted a written statement permitting their daughter to utilize Senior Privileges.
3. Who comply with the house rules of implementation as established by the House Judiciary and the House Director.

Automatic Late Permissions for Junior Women

Procedure

1. There shall be eight (8) automatic late permissions per semester (spring & fall) for qualified junior women in good academic standing. "A.L.P.'s" are not transferable.
2. An automatic late permission may be taken any day of the week, and may extend two hours beyond the regular closing hour, except after University vacation periods and all-campus late permission nights.
3. The system shall comply with the house rules of implementation.
4. All other University regulations shall remain in effect.
5. Junior automatic late permissions do not extend to the guests of junior women.

Regular Hours

All women students except those with Senior Privileges shall be in their residences by:

Sunday through Thursday 12:00 midnight
Friday and Saturday 12:30 A.M.

Delayed at Closing

If circumstances prevent a woman student from returning at the designated closing hour, she shall:

1. Phone her House Director *immediately* via the University number, 663-1511, on the University switchboard, or the House Director's phone.
2. Return as soon as possible.
3. Ring the house bell for admittance.

FAILURE TO FOLLOW THE ABOVE STEPS WITHIN A REASONABLE LAPSE OF TIME MAY RESULT IN A REGULAR EMERGENCY PROCEDURE BY THE HOUSE DIRECTOR.

Leaving the Housing Unit After Official Closing

No woman student may leave her housing unit after the official closing time, or before the official opening time of her housing unit, without the permission of her House Director. This ruling also applies to women with Senior Privileges.

Late Permission

If a girl desires a late permission, she shall:

1. Request the late permission from her House Director before the

house closes. (Late "pers" may be granted for out-of-town plays, ballets, specific student activities, etc.)

2. All University rules concerning signing out and in remain in effect.

Group Late Permissions

Group late permissions for late rehearsals, etc. must be obtained through the Office of Student Affairs, two days before the permission is needed.

Guests

Guests may be accommodated in women's residences on Friday and Saturday nights when classes are in session, or in accordance with the housing unit's regulations. There will be no guests accommodated the weekend preceding final examinations or during the final examination period. Each resident is responsible for guests' observance of house and University rules and must register her guests with the House Director. Senior Privileges are not extended to the guests of senior women.

Signing Out and In

DAILY

The Office of Student Affairs considers this procedure a service to the student, her friends and relatives; therefore, any woman student who expects to be out of her residence after 8 P.M. shall:

1. Register in writing her specific destination and expected time of return.
2. If necessary register the above information with her House Director by telephone. If her House Director is not available, then call the House President or House Judiciary Chairman.
3. Sign in upon return.

OVERNIGHT AND VACATION PERIODS

1. Register in writing her specific destination with complete address and expected time of return.
2. Sign in upon return.
3. If she is to be a guest in Ann Arbor—
 - a. In another University housing unit, the House Director of the hostess must send a note or call her House Director.
 - b. In a non-University residence the hostess must be 25 years of age and/or married and must send a note or call the House Director. (Women with Senior Privileges are exempt.)
 - c. The fact that the hostess is a relative of the resident will be taken into consideration by the House Director in her decision to grant or withhold approval.

4. Women with Senior Privileges shall return to their residence by the official closing hour following a University vacation period.

Serenades

The following provisions shall be made for serenades of women living in any University housing unit:

1. The president of the housing unit should make the arrangements for the serenade with the House Director.
2. Any freshman pledge or pledge living in another University housing unit wishing a serenade at her sorority on the weekend may do so by making arrangements to stay overnight at the sorority.
3. If a freshman pledge or pledge living in other University housing plans a serenade during the week, it must be held at her residence.
4. The young woman being serenaded may leave the group at the point in the serenade when she is part of the ceremony. She will be allowed a reasonable time before returning to the house.
5. At no serenade may relatives or friends remain in any woman's residence later than visiting hours.
6. No woman's residence is to be used by non-University of Michigan women for any purpose concerning a serenade.

Freshmen in Apartments

A freshman woman may not visit in non-University housing units. Any freshman woman found in violation shall be liable to disciplinary action. Students admitted to the University from high school with advanced standing must have two semesters of residency on the Ann Arbor campus before they are eligible for upperclass visiting privileges.

IV. GENERAL REGULATIONS

Automobile

"No student while in attendance at the University shall operate an automobile except under regulations set down by the Office of Student Affairs. Students over 21 years of age and seniors (90 hours) in good standing may operate an automobile if properly registered with the Office of Student Affairs. In exceptional and extraordinary cases the Office of Student Affairs may grant permission to operate an automobile to students under 21 years of age or less than senior standing. Any student violating these regulations shall be liable to disciplinary action by the proper University authorities."
(Bylaws of the Regents)

Bicycles

Any bicycle parked or stored anywhere on University property shall have a current license clearly displayed. As a service to students during fall

registration, city licenses may be obtained at the Student Activities Building and after the registration period may be purchased at the Office of the City Clerk in the City Hall.

Motorized Cycles

All motor bicycles, motor scooters, and motorcycles on campus shall be registered and a decal secured for them in the Office of Student Affairs.

Eligibility

Any regularly enrolled student is eligible to participate in extracurricular activities provided he is not on academic or social probation. Responsibility for observance of eligibility is placed directly upon the student. In case of doubt of status, students may inquire at the Office of Student Affairs.

False Representation

Any instance of the use of false representation (University or civil) shall be subject to disciplinary action.

Financial Obligations

Students shall pay all accounts due the University in accordance with regulations set forth for such payments by the Vice-President in charge of Business and Finance. (*Regents' Proceedings* 1932-36, p. 785, and February 17, 1961, p. 225.) Proper observance of all financial obligations is deemed essential and students who are guilty of laxness in this regard shall be liable to disciplinary action by the proper University authorities.

Housing Policy

The Vice-President for Student Affairs shall establish such regulations as are deemed appropriate for requiring certain students to live in designated housing units.

Intoxicants

The University policy concerning the use of intoxicants will be consistent with state and local regulations. (*See Appendix for Michigan compiled Laws and Ordinances of the City of Ann Arbor.*)

Library Regulations

Fines for overdue books shall be:

- a) Regular loans: 25 cents per day or portion thereof.
- b) Overnight loans: 25 cents for the first hour; 50 cents per hour, or portion, thereafter.

- c) Unpaid fines: 25 cents additional charge per book whenever a student returns an overdue book without paying the fine, and the Library must collect it.

Any student who willfully mutilates, defaces, removes or attempts to remove without charging any item which belongs to the collections of the Libraries of the University shall be punished by a fine of \$100 or by suspension from the University or both. (*Regents' Proceedings*, September 1958.)

Solicitations and Drives

Solicitations of funds, clothing, books, votes, signatures, memberships, or subscriptions, or sale of tags, tokens, or literature, or similar action on the campus or in University buildings is subject to clearance through the appropriate student or administrative organization.

Summer Rules

The University rules and regulations in this booklet are in effect during all academic sessions, including summer sessions. (Regulations for motorized vehicles are excluded.)

Unauthorized Demonstrations

Any student involved in inciting, leading, participating in student riots or raids which could result in injury to persons, destruction of property or violations of a University regulation, state law, or city ordinance shall be liable to disciplinary action by the proper University authorities.

V. UNIVERSITY OF MICHIGAN CAMPUS JUDICIARY

University Committee on Standards and Conduct

1. Shall serve as a final appeal board for all penalties invoked by judicial bodies within its jurisdiction.
2. Shall adjudicate violations which are waived to it by Joint Judiciary Council.

Joint Judiciary Council

1. Shall serve as an appeal board for all penalties invoked by University Organized Housing Judiciaries.
2. Shall adjudicate violations involving:
 - a) Students living in unsupervised housing.
 - b) Students referred from civil court, University authorities, University schools or colleges, student organizations, etc.
 - c) Students living in both supervised and unsupervised housing units.
3. Shall adjudicate violations which are waived to it by University Organized Housing Judiciaries.

University Organized Housing Judiciaries

1. Shall adjudicate University regulations which directly affect only their own housing unit.
2. Shall adjudicate any rules, regulations or standards of the housing units which have been established within the limitations of University regulations.

VI. PENALTIES

Every community must have certain guide lines in the form of rules and regulations to insure the greatest possible protection and comfort for its members. When a person chooses to become a member, he also chooses to adhere to the rules and regulations.

The purpose of the judiciary plan is to uphold University regulations and help students realize their responsibilities to each other and to the University. The method by which this is accomplished is of the utmost importance for the true function of the Judiciary Council is to educate, and any penalty that may be administered is done with this purpose in mind.

Penalties

SUSPENSION

In order to safeguard its ideals of scholarship and character, the University reserves the right to require the withdrawal of any student, subject to the judicial processes of the University. Failure to comply with the disciplinary order of any disciplinary authority shall result in suspension until compliance.

SOCIAL PROBATION

Probation may involve any curtailment of non-academic activities for a specified length of time. Probation represents the intermediate status between good standing and suspension.

SOCIAL PROBATION FOR STUDENT ORGANIZATIONS

Social probation for student organizations is defined as (a) the cessation of all group social activities at which both men and women are present and (b) the denial of permission for any public performances by the group or its representatives. Social probation may include, in addition, the cessation of rushing, pledging, initiation activities and social activities.

FINES

A monetary fine may be imposed by the Judiciary Council when a case merits such action.

WITHDRAWAL OF SPECIAL PRIVILEGES

For example, Senior Privileges, Late Permissions, etc.

OTHER PENALTIES

Warnings, work penalties, etc.

Notice of Penalties

Written notice of all penalties imposed by the Joint Judiciary Council and the University Committee on Standards and Conduct shall be sent to the students, their parents, and administrative officers of the school or college in which they are enrolled, the Office of Student Affairs, and in the case of students living in University organized housing, a copy to the Resident Director. Students living in sororities and fraternities have notices also sent to the president of their chapter.

A student may make a written appeal to have the parental letter withheld. The request will be considered only if substantiated by valid reasons.

VII. APPENDIX

Michigan Compiled Laws, 1948

436.33 Age of purchaser.

Section 33. *Age of purchaser.* No alcoholic liquor shall be sold to any person unless he shall have attained the age of 21 years. A suitable sign describing the provisions of this section and warning violators thereof, shall be posted in a conspicuous place in each room where any alcoholic liquors are sold. Said signs shall be approved and furnished by the state liquor control commission.

436.34 Consumption of alcoholic liquors; public highways, parks and places of amusement

Section 34. *Public highways, public parks and places of amusement.* No alcoholic liquor shall be consumed on the public highways. No alcoholic liquor, except beer and/or wine shall be consumed in public parks and places of amusement not licensed to sell for consumption on the premises.

750.141a Children; furnishing liquor without prescription.

Section 141a. Any person who willfully gives or furnishes any alcoholic beverage to a minor except upon authority of and pursuant to a prescription of a duly licensed physician, shall be guilty of a misdemeanor.

750.141c Minor falsely representing age in purchasing or attempting to purchase alcoholic liquor.

Section 141c. Any person under the age of 21 years who shall by documentary evidence falsely represent himself to be 21 years of age or over, for the purpose of purchasing or attempting to purchase any alcoholic liquor, or who shall give any such false information regarding his age to any person selling alcoholic liquor, for the purpose of securing a sale thereof to himself or to any other person under the age of 21 years, shall be guilty of a misdemeanor.

Michigan Public Acts, 1952

No. 227

No person under the age of 21 shall purchase or knowingly possess, transport or have under his control in any motor vehicle any alcoholic liquor, unless said person is employed by a licensee under this act and is possessing, transporting, or having such alcoholic liquor in a motor vehicle under his control during regular working hours and in the course of his employment.

(This law has been interpreted to mean that a minor may be prosecuted

for possession of alcoholic beverages anywhere and, further, that the minor driver of any automobile can be arrested and charged with a misdemeanor if any beer, wine, whiskey, or other spirits are found in the automobile which he is driving, whether or not he purchased the same or whether or not the alcoholic beverages were brought into the automobile by another person. The mere presence of such beer, wine, whiskey, or other spirits in any automobile with the knowledge of a driver under 21 years of age will be sufficient evidence for the conviction of such driver. Other minor persons in an automobile where alcoholic beverages are found can be charged with possession as well as the driver.) (Michigan Liquor Control Commission.)

Ordinances of the City of Ann Arbor

9:62 (3)

No person shall drive or attempt to drive or operate any motor vehicle on any highway within the City of Ann Arbor while showing any evidence of having drunk intoxicating liquor.

9:74

Sales to Minors. No person, either directly or indirectly, by himself, clerk, agent, servant, or employee, shall at any time sell, furnish, give, or deliver any alcoholic liquor to any person unless such person has attained the age of twenty-one (21) years; nor shall any person, either directly or indirectly by himself, clerk, agent, servant or employee, at any time, sell, furnish, give or deliver any alcoholic liquor to any person who is so intoxicated as not to be in control of all his faculties.

9:75

Purchase by Minors. No person under the age of twenty-one (21) years shall at any time purchase, offer or attempt to purchase, obtain, consume, or bring into any premises within the City of Ann Arbor, for which a license has been issued to sell intoxicating liquor on the premises, any alcoholic liquor as defined by this Chapter. Nor shall any person in order to procure the sale and furnishing of alcoholic liquor to any person under the age of twenty-one (21) years, make any false representations as to the age of the person for whom said alcoholic liquor is desired. Nor shall any person under the age of twenty-one (21) years furnish any false information regarding his or her age or make any false representations as to his or her age to any law enforcement officer, or to any person in charge of or employed in a place of business where alcoholic liquor is sold, for the purpose of obtaining a sale of any alcoholic liquor to himself or herself.

9:81

Consumption in Public. No alcoholic liquor shall be consumed on the public streets, parks, or in any other public places, including any store or establishment doing business with the public, in the City of Ann Arbor, not

licensed to sell such alcoholic liquor for consumption on the premises; nor shall anyone who owns, operates, or controls any such public establishment or store, permit the consumption of alcoholic liquor therein, without having first obtained a license therefor.

10:172

No person may operate a bicycle upon the public streets of the City of Ann Arbor without a license having been first obtained. Bicyclists are required to obey all traffic ordinances. (See Ordinance Code, City of Ann Arbor, 10:160-10:179.)

18:987

Every sale of alcoholic liquor made in state liquor stores or by all types of licensees shall be for cash only.

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UNIVERSITY OF MICHIGAN



OFFICIAL PUBLICATION

Library Science

1963-1964

FALL SEMESTER, 1963

• Registration.....	August 28-31, Wednesday-Saturday
Classes begin.....	September 3, Tuesday
Last day for adding or dropping courses without record.....	September 17, Tuesday
Diploma applications due.....	September 24, Tuesday
Last day for dropping courses.....	October 1, Tuesday
Applications for fellowships and scholarships available.....	November 1, Friday
Doctoral dissertations due.....	November 1, Friday
Thanksgiving recess begins.....	November 27, Wednesday (evening)
Classes resume.....	December 2, Monday (morning)
Final reports of doctoral oral examinations due.....	December 2, Monday
Examination period.....	December 16-21, Monday-Saturday
Midyear Graduation.....	December 14, Saturday
Fall semester ends.....	December 21, Saturday

*Registration.....	January 13-15, 18. Monday-Wednesday, Saturday (afternoon)
Classes begin.....	January 16, Thursday
Last day for adding or dropping courses without record.....	January 31, Friday
Diploma applications due.....	February 7, Friday
Last day for dropping courses.....	February 14, Friday
Last day for return of fellowship and scholarship applications.....	February 15, Saturday
Spring recess begins.....	March 21, Saturday (noon)
Classes resume.....	March 31, Tuesday (morning)
Doctoral dissertations due.....	April 3, Friday
Final reports of doctoral oral examinations due.....	May 4, Monday
Examination period.....	May 11-16, Monday-Saturday
Spring semester ends.....	May 23, Saturday
Commencement.....	May 23, Saturday

Registration.....	June 18-20, Thursday-Saturday
Classes begin.....	June 22, Monday
Diploma applications due.....	June 26, Friday
Independence Day, a holiday.....	July 4, Saturday
Six-week courses end.....	August 1, Saturday
Eight-week courses end.....	August 15, Saturday

This calendar is subject to revision.

* For registration schedules, see pages 36 and 37.

AUGUST 16, 1963

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1963-1964

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General Library

Courses in Library Science

IN the spring of 1926, the Regents of the University authorized the creation of the Department of Library Science, designed to offer instruction in both the College of Literature, Science, and the Arts and the Graduate School. The two-year curriculum in library science, inaugurated with the opening of the first semester of the academic year 1926-27, was accredited by the Board of Education for Librarianship of the American Library Association in 1928. The Department is a member of the Association of American Library Schools.

From 1926 to 1948, the first-year course led to the degree Bachelor of Arts in Library Science and the second-year course to the degree Master of Arts in Library Science. During this period 781 students were graduated with the professional bachelor's degree and 346 with the master's degree. With the first semester of 1948, following a major curriculum revision, the Bachelor of Arts in Library Science program was discontinued, and a new program leading to the degrees Master of Arts in Library Science and Doctor of Philosophy was inaugurated. This program was accredited by the Board of Education for Librarianship in 1954, under its revised standards adopted in 1951.

The basic program in library science is intended to prepare a selected group of college graduates for a professional career in librarianship. Advanced courses are offered for those who wish to do work beyond that of the first professional degree. A few courses are also available for students who do not seek degrees in library science but who wish to qualify as school librarians or teacher-librarians.

Career Opportunities

Librarianship is a rapidly expanding profession and offers young men and women a wide range of opportunity for useful and significant service. The expansion of libraries in educational institutions, the establishment of libraries to meet the growing and complex needs of specialists in science, business, and industry, the extension of library services to the people through public and county libraries have combined to create a serious shortage of qualified librarians.

Placement

The Department assists its students to secure positions and maintains contact with them in their subsequent careers. While no guarantee can be given that all graduates will be placed, the demand for qualified librarians in recent years has greatly exceeded the number of available candidates. Beginning salaries compare favorably with those in other professions requiring similar preparation. For the most part inexperienced graduates of 1963 accepted positions in the salary range of \$5400 to \$5800. In a typical year at least 25 per cent of the graduates join the staffs of college and university libraries, with another 25 per cent going to municipal and county public libraries. About 15 per cent find places in special libraries and 15 per cent in school libraries. A few graduates with previous library experience take positions with the U.S. Army Special Overseas Service or engage in the teaching of library science. Approximately half of the graduates find positions in Michigan. The remainder are scattered throughout the United States and foreign countries, with Ohio, Illinois, Indiana, New York, Pennsylvania, and the District of Columbia receiving the largest number.

The distribution of placement in the chief types of libraries for those receiving degrees in 1962 was as follows: public and county libraries, 31; college and university libraries, 35; special libraries, 10; school libraries, 31. The total number receiving degrees in that year was 117.

Alumni Relationships

Co-operation is maintained between the alumni and the Department through an active alumni association. Provision is made for an annual dinner meeting at the time of the Conference of the American Library Association, and a publication, *Alumni Notes*, reports news of alumni activities as well as current developments in the Department. 2557 degrees in Library Science have been awarded from 1926 through the calendar year 1962. The number of individuals who have earned one or more degrees in Library Science since 1926 is 2409.

Facilities

The libraries of the University contain more than two million volumes. The collection of trade bibliographies, reference books,

and special bibliographies is large and valuable. Illustrative material is provided in abundance for the work of the library course. All departments of the General Library are open to students for observation.

A special library of over eleven thousand volumes serving the students and faculty of the Department, under the direction of a professional librarian, is maintained on the fourth floor of the General Library.

Field Trips

Annual field trips to Detroit and other nearby cities provide opportunities for observation of libraries in operation and for inspection of new types of building construction. The visit to Detroit is usually in October and that to Toledo or Wayne in April or May. The trip to Detroit enables students to attend a meeting of the Book Selection Committee of the Detroit Public Library. University buses provide transportation for these trips.

Semester Fees

For Michigan students, the fee is \$175 for each semester; for non-Michigan students, \$500 each semester. Reduced program fees for students taking 1 to 7 hours range from \$75 to \$145 for Michigan residents and \$215 to \$415 for nonresidents. The fee for work *in absentia* is \$90.

Living Expenses

Prices charged for board and room vary. For information on prospective living costs, students are advised to correspond with the Office of Student Housing. The cost of books and class supplies averages about \$35 for the year.

Application blanks for rooms and information regarding the facilities, location, and living conditions of the men's and women's residence halls may be obtained from the Office of Student Housing, Student Activities Building. Information concerning other approved accommodations may also be obtained from this office.

Summer Session

The summer session offerings vary from year to year. The required courses are usually offered each summer, but the second semester continuations of these courses are offered less frequently. Certain advanced courses, e.g., *Library Buildings and Their Equipment* (Lib. Sci. 762) and *Bibliography of American History and Literature* (Lib. Sci. 826), are offered chiefly in summer sessions.

Workshops dealing with special phases of library work are usually offered during the last two weeks of the summer session. The workshops are open to regular students in the summer session, and each carries two hours course credit. Students attending the summer session for the workshop period only may do so by reserving a place in the class in advance.

Descriptions of workshops offered regularly are given under the following numbers: 453–60. Other special workshops are offered from time to time; e.g., 762, *Library Buildings and Their Equipment*.

Intensive courses of three or four weeks duration are also given in the summer session. These carry two or three hours credit each and may be elected as a part of the degree program by regular students or as refresher courses by practicing librarians and students who cannot come to Ann Arbor for the entire summer session.

A special announcement describing the summer program is issued each spring and is available upon request from the office of the Department of Library Science.

Enrollment in the workshops and intensive courses is limited and students planning to elect one or more of them should secure permission in advance by filing a pre-registration form.

The fee for the summer session courses in library science is \$100 for residents of the state of Michigan, \$260 for nonresidents. Reduced fees are available for those taking less than a full program: two hours, workshops, work on dissertation, or auditor's fee—\$60 for Michigan residents, \$150 for nonresidents; three or four hours—\$70–\$80 for Michigan residents, \$180–\$210 for nonresidents.

Extension Courses

Selected courses in library science are offered in the University of Michigan Centers for Graduate Study in Detroit, Flint, and Grand Rapids. These courses carry residence credit for students who have

been admitted as degree candidates. Students beginning their studies in this way are advised to consult frequently with campus advisers and to plan in advance for a minimum period of one semester or its equivalent on the campus. The following courses are scheduled for 1963-64 at the Graduate Study Centers:

DETROIT

<i>Fall Semester</i>				<i>Spring Semester</i>			
465	2 hrs.	Thurs.	7-9 P.M.	470	2 hrs.	Wed.	7-9 P.M.
476	2	Wed.	7-9 P.M.	521	2	Tues.	7-9 P.M.
513	2	Tues.	7-9 P.M.	517B	2	Thurs.	7-9 P.M.
517A	2	Thurs.	7-9 P.M.	529B	2	Mon.	7-9 P.M.
529A	2	Mon.	7-9 P.M.	688	2	Thurs.	7-9 P.M.

FLINT

675	2	Wed.	4:30-6:30 P.M.
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GRAND RAPIDS

517	4	Sat.	9 A.M.-1 P.M.	431	2
				514	2

Correspondence Courses

The University of Michigan does not conduct courses in library science by correspondence, nor does it accept for credit toward a degree courses taken by correspondence at other universities.

Number of Students

The number of students in the Department of Library Science in the academic year is limited. Early application therefore is advisable. Current enrollment of degree candidates in Library Science on the campus is approximately 150 in the academic year and 300 in the summer session. About 120 are graduated each year with the A.M.L.S. degree.

Employment on the Campus

Employment in the University libraries is frequently available to students in the Department of Library Science. Persons interested in such employment, either on a full-time or part-time basis, should write to the Personnel and Budget Officer, The University of Michigan Library, Ann Arbor, Michigan, giving a summary of their

previous experience and requesting application forms. Students employed on an hourly basis for not more than fifteen or twenty hours a week may carry a full-time schedule of class work; those employed full time are permitted to carry three or four hours of class work each semester.

Positions in the residence halls as resident counselors, advisers, or assistants are open to graduate students. Application for these positions should be made in writing, and personal interviews are required. Applicants should write to the Office of Students Affairs, Student Activities Building, University of Michigan.

Scholarships, Fellowships, and Assistantships

Library Work-Study Scholarships offered by the University of Michigan Library provide an opportunity for well-qualified students enrolled in the Department of Library Science to acquire intensive work experience in a department of the University Library. Awards are made to candidates with superior academic records who can qualify for library assignments. These scholarships carry a stipend of \$3,000 paid in 11 equal monthly installments and a 12th installment in 2 parts, beginning on June 30. The Library will also pay the scholar's semester fees for the year. The appointment is for the period from June 15 through June 14 of the following year, and may be once renewed. Scholars may elect not more than half the number of course hours expected of full-time students in the Department (6-7 hours in a regular semester, 2-3 hours in a summer session). They will be scheduled for 32 hours of work weekly in the Library. They have an annual vacation allowance of 24 working days and sick leave of one day a month. Application blanks will be furnished by the Department on request. Applications must be submitted by April 1. Awards will be announced about May 1.

Scholarships offered each year by the Horace H. Rackham School of Graduate Studies are open to students in library science. Only students with high scholastic records can be considered for appointment to scholarships or fellowships.

All applications for fellowships and scholarships must be made on application forms secured from the office of the Department of Library Science. Complete applications, including transcripts and letters of recommendation, must be submitted before February 15 of the academic year preceding the one for which the fellowship or

scholarship is desired. Appointments are announced on or about April 1 of each year.

Unsuccessful applicants for these scholarships and fellowships will be considered for departmental scholarships, assistantships, or grants-in-aid. Departmental scholarships range from \$500 to \$1000; assistantships range from \$500 to \$1000; grants-in-aid are usually for the amount of the University fees for a semester or an academic year.

Students from countries outside the United States of America or Canada are not eligible to apply for any of the listed fellowships and scholarships until they have completed at least one year of work in an American university or college, unless they have been recommended to the Dean of the Graduate School by the Institute of International Education, 1 East 67th Street, New York 21, New York. The Barbour Scholarships for oriental women are awarded to women graduates of oriental colleges who wish to return to their own countries after the completion of their work. Awards are made annually in March to take effect at the beginning of the following semester in September for a period of two terms. Scholarships are renewable until a maximum of eight semesters has been reached. The stipend is semester fees plus \$600 a semester and health insurance. Applications are made directly to the Barbour Scholarship Committee, University of Michigan, Ann Arbor, Michigan.

Margaret Mann Scholarship

The Margaret Mann Scholarship was established in 1938 by the Michigan Library Science Alumni Association in honor of Associate Professor Margaret Mann upon her retirement. It is awarded to a student in Library science primarily as an academic honor, based on demonstration of ability and promise of professional development. The amount of this award is approximately \$250. The recipients in 1963 were James R. Evenhuis, A.B., Hope College, 1960, and Lois C. Farrell, A.B., DePauw University, 1940, A.M., University of California, 1942.

William Warner Bishop Lectureship

The William Warner Bishop Lectureship Fund was established in May, 1941, by alumni and former students of the University of Michigan Department of Library Science and by the faculty of the

Department. The purpose, as stated in the deed of gift, is to provide a University lecture annually, or at other intervals to be decided by the administrators of the fund, in honor of William Warner Bishop, former Chairman of the Department of Library Science and Librarian of the University. The fund is also designed to provide for the publication and distribution of the lectures to the contributors and under such other conditions as the administrators may determine. The subjects of the lectures are to be in the broad field of librarianship.

Following are lecturers in this series and the titles of their addresses:

- Charles R. Sanderson, Chief Librarian, Toronto Public Library, "A Librarian to Librarians, on the Inwardness of Books," 1942. (Published in *Michigan Alumnus Quarterly Review*, 49:337-46, summer 1943)
- Francis Clarke Sayers, Superintendent of Work with Children, New York Public Library, "The Belligerent Profession," 1948. (Published in *Michigan Alumnus Quarterly Review*, 56:140-44, winter 1950)
- Dan Lacy, Managing Director, American Book Publishers Council, "Books and Communication; Social Implications of Publishing, Bookselling and Librarianship," 1954.
- Jack Dalton, Dean, School of Library Service, Columbia University. "International Library Relations, with Special Reference to the International Federation of Library Associations," 1961.

Eunice Wead Book Fund

This trust fund was established by the alumni of the Department of Library Science in 1945 as a tribute to Miss Wead, who had served on the faculty of the Department from 1926 until her retirement in 1945. The income from the fund is used to purchase books for the Library Science Library in the fields of Professor Wead's interests, particularly the history of printing.

McHale Memorial Book Fund

Established by friends of Professor McHale at the time of his death in 1948, this fund is used for the purchase of books of general interest for students in Library Science. Notable contemporary books on aspects of American life form a significant part of this collection.

Preparation for a Library Career

Students planning to become librarians are advised to secure a well-rounded education. A strong background in foreign languages is especially desirable for those who wish to work in large university or other research libraries. Those who wish to fit themselves for special library work should secure a good grounding in their subject specialty during their junior and senior years. A graduate degree in a special field is often an asset. In the Library Science program some emphasis is placed on the preparation of medical and technical librarians. For positions as school librarians, a teacher's certificate is usually required.

Entrance Requirements

Candidates for the degree Master of Arts in Library Science must meet the general requirements for admission as degree candidates in the Graduate School. They must have a bachelor's degree from the College of Literature, Science, and the Arts (or from another approved college) with at least two and three-fourths as many honor points as hours (A, excellent, = 4 points; B, good, = 3 points; C, fair, = 2 points). In planning an undergraduate program students are urged to maintain a balance of courses in the three main divisions of liberal arts subjects—humanities, social science, and science—as admission is determined by both the character and quality of the undergraduate program. At least 90 semester hours must be in liberal arts fields. A reading knowledge of a major modern foreign language is also required. This requirement may be met with at least twelve semester hours in one language, or with one year of college work in each of two languages. Completion of one of the two-semester reading courses for graduate students, French 111 and 112 or German 111 and 112, also satisfies the language requirement. These courses do not carry graduate credit and so may not be applied toward the course requirements for the master's degree in library science, but may be elected after admission along with courses in library science.

Requirements for the Master's Degree

The degree Master of Arts in Library Science is conferred upon students duly admitted as candidates for that degree who have

earned thirty-four hours of credit in the Graduate School, at least twenty-eight of which must be in library science. The following courses or acceptable equivalents are required: Library Science 513, 517, 521, and 529. In addition, students are expected to complete at least one of the following courses: Library Science 620, 623, 626. The normal load of a graduate student each semester is twelve hours; in the summer session, six hours. The average period of residence required for completion of work for the degree is two semesters and a summer session. Students are urged to enter in the summer session when possible. Except for students who already have an advanced degree in another field of study, all candidates for degrees must elect at least two graduate courses in other departments. This cognate requirement may be fulfilled by courses totaling 4, 5, or 6 credit hours, so long as the requirement of two separate courses is met.

Students have a wide range of cognate courses to meet the requirement for the degree. Selection of such courses depends on the student's previous background and on his interest in other fields. A study of the offerings in various departments of the Graduate School is recommended. The following are representative of such courses:

Chemistry 419 History and Literature of Chemistry.
 Education D400 Audio-Visual Methods and Materials.
 Education H501 Adult Education.
 English 426 Practical Criticism.
 English 432 History of the Novel II: The Novel Since 1850.
 English 474 American Literature Since 1870.
 History 577 Michigan to 1837.
 History 578 Michigan Since 1837.
 History 765, 766 Seminar in American History: The Middle Period.
 Industrial Relations 500 Management of Personnel.
 Latin 605 Introduction to Latin Paleography.
 Latin 606 Latin Inscriptions.
 Political Science 426 American County, Town, and Township Government.

Students in the College of Literature, Science, and the Arts, and other approved colleges, may take certain courses on the undergraduate level and thereby reduce the total number of hours required for the degree. The amount of course credit so applied varies from six to ten hours. In the College of Literature, Science, and the Arts, these courses may be selected from the following: Library Science 401, 431, 442, 465, 470, 513, and 547.

Graduates of accredited library schools who have completed a full year's postbaccalaureate course in library science may fulfill requirements for the degree Master of Arts in Library Science with the completion of twenty-four hours of approved courses in the Graduate School, at least twelve of which must be in library science. Courses numbered above 650 are recommended for such students.

Attention is called to the fact that a student may complete the required work for a degree in library science by attendance during summer sessions. Students who elect the work in this manner should be particularly careful to complete the required courses as early as possible.

Advanced Credit

Approval in advance of prospective graduate work in another institution or in University of Michigan extension courses is not given

Horace H. Rackham School of Graduate Studies



by the Graduate School or authorized to be given by any department in the University. Transfer of advanced credit is not made unless requested by the student in a letter to the Dean.

The question of advanced credit toward the master's degree for satisfactory (B or better) graduate work completed in residence in an organized graduate school of another institution and for University of Michigan extension courses is considered only after a student has completed at least twelve hours of residence credit toward a master's degree in the Graduate School of The University of Michigan and has an over-all grade-point average of B or better at the time of the request. Grades received in courses transferred from other schools or from the Extension Service do not affect the student's grade-point average. Such work must co-ordinate with the student's program in his chosen field and cannot exceed six hours.

A maximum of six hours of advanced credit may be transferred from the records of the University Extension Service, provided that (1) the courses are of graduate caliber and grades are B or better, and (2) the courses fit into the student's program of study. Request for such transfer cannot be considered before the student has completed at least twelve hours of acceptable graduate work after admission to the Graduate School. Students wishing graduate credit for work done in centers for graduate study must be enrolled in the Graduate School. Extension work for which advanced credit is requested must fall within the time limits set for the degrees. Extension credit from other institutions is not accepted, except for that completed at Wayne State University, Michigan State University, Western Michigan University, Central Michigan University, Eastern Michigan University, and Northern Michigan College. A combination of extension and advanced credit is allowed, but the total combination cannot exceed six hours.

Special Program for Librarians in Chinese and Japanese Collections

For candidates who wish to prepare themselves for work in library collections in the Japanese and Chinese languages, the following program is offered in co-operation with the Department of Far Eastern Languages. The requirements are:

1. Twelve semester hours in Japanese or Chinese language courses. These courses would normally be Japanese 101, 102, and 331 or

Chinese 101, 102, and 331. The intensive summer courses are particularly recommended.

2. The following courses in library science: 513, 517, 518, 521, and 529, a total of sixteen hours.

3. Eight hours of elective courses in library science and four hours of graduate cognate work.

Requirements for the Doctor's Degree

An applicant must have the degree Master of Arts in Library Science from The University of Michigan or its equivalent and will become a candidate for the doctor's degree after he has:

1. Satisfied the language requirement of the Graduate School
2. Passed three examinations in the field of library science, two of which are required as follows:

- a) Bibliography and the history of books and libraries (offered in four sections covering the following fields: bibliography and book selection; reference; cataloging and classification; history of books and printing)
- b) Subject bibliography

The other examination is to be chosen from the following:

- c) Public libraries
- d) College and university libraries
- e) School libraries and library service to children

3. Satisfactorily completed the course work required for a master's degree in some cognate department. A proseminar course or its equivalent in the bibliography of the chosen field is essential.

Only students whose graduate records are superior (at least half A) and who have made progress toward meeting the requirements in foreign language will be considered for admission as applicants for the doctor's degree.

For most students the following courses are minimum prerequisites before the preliminary examinations may be taken: Library Science 514, 518, 547, 764, 780, 805 or 816, 850, and either 825, 826, or 831. Other courses may be required in individual cases, depending on the program of the student. The preliminary examinations are offered at the end of each semester but not ordinarily in summer sessions.

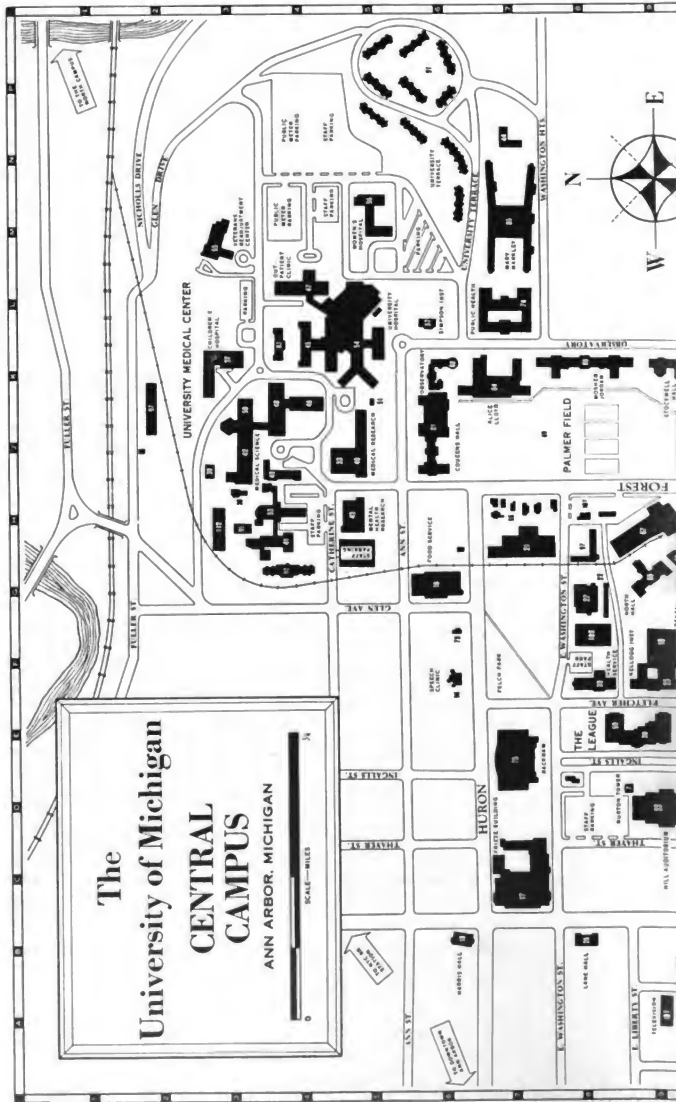
The Doctor of Philosophy degree will be granted only to those who, in addition to other requirements mentioned above, have pre-

The University of Michigan CENTRAL CAMPUS

ANN ARBOR, MICHIGAN

SCALE—MILES

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176	Food Service	E179	212	Public Health School	D42
177	Food Service	E180	213	Public Health School	D41
178	Food Service	E181	214	Public Health School	D40
179	Food Service	E182	215	Public Health School	D39
180	Food Service	E183	216	Public Health School	D38
181	Food Service	E184	217	Public Health School	D37
182	Food Service	E185	218	Public Health School	D36
183	Food Service	E186	219	Public Health School	D35
184	Food Service	E187	220	Public Health School	D34
185	Food Service	E188	221	Public Health School	D33
186	Food Service	E189	222	Public Health School	D32
187	Food Service	E190	223	Public Health School	D31
188	Food Service	E191	224	Public Health School	D30
189	Food Service	E192	225	Public Health School	D29
190	Food Service	E193	226	Public Health School	D28
191	Food Service	E194	227	Public Health School	D27
192	Food Service	E195	228	Public Health School	D26
193	Food Service	E196	229	Public Health School	D25
194	Food Service	E197	230	Public Health School	D24
195	Food Service	E198	231	Public Health School	D23
196	Food Service	E199	232	Public Health School	D22
197	Food Service	E200	233	Public Health School	D21
198	Food Service	E201	234	Public Health School	D20
199	Food Service	E202	235	Public Health School	D19
200	Food Service	E203	236	Public Health School	D18
201	Food Service	E204	237	Public Health School	D17
202	Food Service	E205	238	Public Health School	D16
203	Food Service	E206	239	Public Health School	D15
204	Food Service	E207	240	Public Health School	D14
205	Food Service	E208	241	Public Health School	D13
206	Food Service	E209	242	Public Health School	D12
207	Food Service	E210	243	Public Health School	D11
208	Food Service	E211	244	Public Health School	D10
209	Food Service	E212	245	Public Health School	D09
210	Food Service	E213	246	Public Health School	D08
211	Food Service	E214	247	Public Health School	D07
212	Food Service	E215	248	Public Health School	D06
213	Food Service	E216	249	Public Health School	D05
214	Food Service	E217	250	Public Health School	D04
215	Food Service	E218	251	Public Health School	D03
216	Food Service	E219	252	Public Health School	D02
217	Food Service	E220	253	Public Health School	D01
218	Food Service	E221	254	Public Health School	D99
219	Food Service	E222	255	Public Health School	D98
220	Food Service	E223	256	Public Health School	D97
221	Food Service	E224	257	Public Health School	D96
222	Food Service	E225	258	Public Health School	D95
223	Food Service	E226	259	Public Health School	D94
224	Food Service	E227	260	Public Health School	D93
225	Food Service	E228	261	Public Health School	D92
226	Food Service	E229	262	Public Health School	D91
227	Food Service	E230	263	Public Health School	D90
228	Food Service	E231	264	Public Health School	D89
229	Food Service	E232	265	Public Health School	D88
230	Food Service	E233	266	Public Health School	D87
231	Food Service	E234	267	Public Health School	D86
232	Food Service	E235	268	Public Health School	D85
233	Food Service	E236	269	Public Health School	D84
234	Food Service	E237	270	Public Health School	D83
235	Food Service	E238	271	Public Health School	D82
236	Food Service	E239	272	Public Health School	D81
237	Food Service	E240	273	Public Health School	D80
238	Food Service	E241	274	Public Health School	D79
239	Food Service	E242	275	Public Health School	D78
240	Food Service	E243	276	Public Health School	D77
241	Food Service	E244	277	Public Health School	D76
242	Food Service	E245			

pared a dissertation of scholarly character which represents a contribution to knowledge.

Prospective candidates should also become familiar with the doctoral requirements of the Graduate School as stated in its *Announcement* particularly as they relate to residence:

Effective as of September, 1960, for all new graduate students, the minimum requirement for any doctoral degree is six semesters of graduate study or research beyond the bachelors degree, of which at least two semesters of not less than eight credit hours each must have been completed on the campus in Ann Arbor. Equivalent summer or part-time work may be substituted for one of these two semesters upon the recommendation of the department and with the approval of the Dean of the Graduate School. Students holding research or teaching appointments at The University of Michigan may satisfy the requirement of two semesters by equivalent part-time work. The residence requirement cannot be met by summer sessions only.

A graduate student seeking to satisfy the residence requirement by inclusion of some equivalent part-time work must submit a written petition to the Dean of the Graduate School, giving full details of the manner in which he expects to satisfy this requirement.

A doctoral student whose first enrollment in the Graduate School was in September, 1960, or later, must have paid fees amounting to those for at least six full-time semesters including time spent in working on a master's degree. If a master's degree has been earned at another approved university in the United States or Canada, or if the same number of hours required for a master's degree at The University of Michigan has been completed at another such institution, this requirement may be reduced to four semesters. The minimum registration in any semester for full-time fees is ten credit hours. For any doctoral degree, therefore, a student must pay full-time fees, or the equivalent, for at least three academic years, or two academic years if he holds a master's degree from another approved university in the United States or Canada. Thesis registration, whether in residence or *in absentia*, will be included in meeting the fee requirement. Satisfaction of both the residence and fee requirement is a responsibility of the student.

The following doctoral degrees have been awarded to date:

Prior to 1960

DOCTOR OF PHILOSOPHY

ABBOTT, JOHN CUSHMAN, 1957. Thesis: *Raymond Cazallis Davis and the University of Michigan General Library, 1877-1905.*

BIDLACK, RUSSELL EUGENE, 1954. Thesis: *The University of Michigan General Library; a History of its Beginnings, 1837-1852.*

- BOAZ, MARTHA TEROSSE, 1955. Thesis: *A Qualitative Analysis of the Criticism of Best Sellers; a Study of the Reviews and Reviewers of Best Selling Books from 1944 to 1953.*
- BONK, WALLACE JOHN, 1956. Thesis: *The Printing, Publishing, and Book-selling Activities of John P. Sheldon and his Associates in Detroit, 1817-1830.*
- HARTIN, JOHN SYKES, 1956. Thesis: *The Southeastern United States in the Novel Through 1950; a Bibliographic Review.*
- HEWLETT, LEROY, 1958. Thesis: *James Rivington, Loyalist Printer, Publisher, and Bookseller of the American Revolution, 1724-1802; A Biographical-Bibliographical Study.*
- KASER, DAVID EDWIN, 1956. Thesis: *Messrs. Carey & Lea of Philadelphia, 1822-1838.*
- KENNERLY, SARAH LAW, 1957. Thesis: *Confederate Juvenile Imprints: Children's Books and Periodicals Published in the Confederate States of America, 1861-1865.*
- KRUMMEL, DONALD WILLIAM, 1958. Thesis: *Philadelphia Music Engraving and Publishing, 1800-1820.*
- LEWIS, BENJAMIN MORGAN, 1956. Thesis: *A History and Bibliography of American Magazines, 1800-1810.*
- LITTLE, EVELYN STEEL, 1936. Thesis: *Homer and Theocritus in English Translation: A Critical Bibliography Designed as a Guide for Librarians in the Choice of Editions for the General Reader.*
- MACK, EDNA BALLARD, 1957. Thesis: *The School Library's Contribution to the Total Educational Program of the School: a Content Analysis of Selected Periodicals in the Field of Education.*
- MADDON, LUCY JANE, 1958. Thesis: *Trends and Issues in American Librarianship as Reflected in the Papers and Proceedings of the American Library Association, 1876-1885.*
- SCHICK, FRANK LEOPOLD, 1957. Thesis: *The Paperbound Book in America: The History of Paperbacks and Their European Antecedents.*
- SHARMA, JAGDISH SARAN, 1954. Thesis: *Mahatma Gandhi: A Descriptive Bibliography.*
- SHUKLA, CHAMPAKAL PRANSHANKAR, 1953. Thesis: *A Study of the Publications of the Government of India, with Special Reference to Serial Publications.*
- STOKES, KATHARINE MARTIN, 1959. Thesis: *Book Resources for Teacher Education: A Study Toward the Compilation of a Core List.*
- VILLALON, ALBERTO, 1959. Thesis: *An Introduction to Latin American Juridical Bibliography.*
- ZIMMERMAN, IRENE, 1956. Thesis: *Latin American Periodicals of the Mid-Twentieth Century as Source Material for Research in the Humanities and the Social Sciences.*

DOCTOR OF EDUCATION

MACVEAN, DONALD SIDNEY, 1958. Thesis: *A Study of Curriculum Laboratories in Midwestern Teacher-Training Institutions.*

1960-1963

DOCTOR OF PHILOSOPHY

BEDSOLE, DANNY THOMAS, A.B., Anderson College, 1951; A.M., The University of Michigan, 1955; A.M.L.S., *ibid.*, 1957; Ph.D., *ibid.*, 1961. Thesis: *Library Systems in Large Industrial Corporations.*

BISHOP, OLGA BERNICE, B.A., Mount Allison University, 1938; B.P.A., Carleton College, Ottawa, 1946; A.M. (History), Mount Allison University, 1951; A.M.L.S., The University of Michigan, 1952; Ph.D., *ibid.*, 1962. Thesis: *Publications of the Government of the Province of Canada, 1841-1867.*

CARRIER, ESTHER JANE, B.A., Geneva College, 1946; B.S. in L.S., Carnegie Institute of Technology, 1947; M.A., Pennsylvania State University, 1950; A.M.L.S., The University of Michigan, 1958; Ph.D., *ibid.*, 1960. Thesis: *Fiction in Public Libraries of the United States, 1876-1900.*

DARLING, RICHARD LEWIS, B.A., Montana State University, 1948; M.A., *ibid.*, 1949; A.M.L.S., The University of Michigan, 1954; Ph.D., *ibid.*, 1960. Thesis: *Reviewing of Children's Books in American Periodicals, 1865-1881.*

ENNEN, ROBERT CAMPION, A.B., John Carroll University, 1950; A.M.L.S., The University of Michigan, 1956; A.M., *ibid.*, 1958; Ph.D., *ibid.*, 1961. Thesis: *The Gradus ad Parnassum.*

GAMBEE, BUDD LESLIE, A.B., University of Rochester, 1940; A.B.L.S., The University of Michigan, 1941; A.M.L.S., *ibid.*, 1949; Ph.D., *ibid.*, 1963. Thesis: *Frank Leslie's Illustrated Newspaper, 1835-1860: Artistic and Technical Operations of a Pioneer Pictorial News Weekly in America.*

HAGLER, RONALD ALBERT, B.A., University of Ottawa, 1955; A.M.L.S., The University of Michigan, 1957; A.M., *ibid.*, 1960; Ph.D., *ibid.*, 1961. Thesis: *The Selection and Acquisition of Books in Six Ontario Public Libraries in Relation to the Canadian Publishing System.*

HARLAN, ROBERT DALE, B.A., Hastings College, 1950; A.M.L.S., The University of Michigan, 1956; A.M., *ibid.*, 1958; Ph.D., *ibid.*, 1960. Thesis: *William Strahan: Eighteenth Century London Printer and Publisher.*

KEPHART, JOHN EDGAR, A.B., Wheaton College, 1948; A.M., University of Illinois, 1949; M.S.(L.S.), *ibid.*, 1951; Ph.D., The University of Michigan, 1960. Thesis: *A Voice for Freedom: The Signal of Liberty, 1841-1848.*

KILPELA, RAYMOND EARL OLIVER, A.B., The University of Michigan, 1946; A.M., *ibid.*, 1947; A.M.L.S., *ibid.*, 1959; Ph.D., *ibid.*, 1961. Thesis: *A Comparative Study of Library Legislation in Indiana, Michigan and Ohio.*

- KRUZAS, ANTHONY THOMAS, B.B.A., City College of the City of New York, 1950; A.M.L.S., The University of Michigan, 1951; Ph.D., *ibid.*, 1960. Thesis: *The Development of Special Libraries for American Business and Industry.*
- MARINO, SAMUEL JOSEPH, A.B., Louisiana State University, 1940; B.S.(L.S.), *ibid.*, 1948; M.A., *ibid.*, 1949; A.M.L.S., University of Michigan, 1952; Ph.D., *ibid.*, 1962. Thesis: *The French-Refugee Newspapers and Periodicals in the United States, 1789-1825.*
- MUNN, ROBERT FERGUSON, A.B., Oberlin College, 1949; A.M.(L.S.), University of Chicago, 1950; Ph.D., The University of Michigan, 1962. Thesis: *West Virginia University Library, 1867-1917.*
- NIEMI, TAISTO JOHN, B.S., University of Minnesota, 1946; A.M.L.S., The University of Michigan, 1951; Ph.D., *ibid.*, 1960. Thesis: *The Finnish Lutheran Book Concern, 1900-1950: A Historical and Developmental Study.*
- OLLER, ANNA KATHRYN, A.B., Juniata College, 1938; B.S. in L.S., Drexel Institute of Technology, 1939; M.S. in L.S., University of Illinois, 1951; Ph.D., The University of Michigan, 1963. Thesis: *Christopher Saur, Colonial Printer; a Study of the Publications of the Press, 1738-1758.*
- PARKER, JOHN, A.B., Jamestown College, 1947; A.M., Wayne State University, 1949; A.M.L.S., The University of Michigan, 1953; Ph.D., *ibid.*, 1960. Thesis: *Books to Build an Empire: A Bibliographical History of English Overseas Interests to 1620.*
- PENLAND, PATRICK ROBERT, B.A., The University of British Columbia, 1948; B.L.S., McGill University, 1953; A.M.L.S., The University of Michigan, 1955; Ph.D., *ibid.*, 1960. Thesis: *The Image of Public Library Adult Education as Reflected in the Opinions of Public Library Supervisory Staff Members in the Public Libraries of Michigan Serving Populations over 25,000.*
- ROUSE, ROSCOE, B.A. in Lib. Sci., University of Oklahoma, 1948; M.A., University of Oklahoma, 1952; A.M.L.S., The University of Michigan, 1958; Ph.D., *ibid.*, 1962. Thesis: *A History of the Baylor University Library, 1845-1919.*
- SKIPPER, JAMES EVERETT, A.B., University of North Carolina, 1943; A.B.L.S., The University of Michigan, 1948; A.M.L.S., *ibid.*, 1949; Ph.D., *ibid.*, 1960. Thesis: *The Ohio State University Library, 1873-1913.*
- WASSERMAN, PAUL, B.B.A., College of the City of New York, 1948; M.S. (L.S.), Columbia University, 1949; M.S., *ibid.*, 1950; Ph.D., The University of Michigan, 1961. Thesis: *Toward a Methodology for the Formulation of Objectives in Public Libraries: An Empirical Analysis.*

DOCTOR OF EDUCATION

- VANCE, KENNETH E., B.S., Central Michigan University, 1943; A.M., The University of Michigan, 1948; A.M.L.S., *ibid.*, 1950; Ed.D., *ibid.*, 1962. Thesis: *The Professional Status of School Librarians in Michigan Public Secondary Schools Enrolling 500 or More Students.*

Additional Information

For regulations applicable to all graduate degree candidates, reference should be made to the general *Announcement* of the Graduate School. Examples:

<i>Topic</i>	<i>Page</i>	<i>Topic</i>	<i>Page</i>
Admission	7-9	Fees and expenses	21-23
Advanced credit	12	Fellowships and Scholarships	34-45
Centers for Graduate Study	11	Grading	24-25
Cognate courses	16-17, 26-27	International Center	47-48
Course requirements	16-17	Loan funds	45-46
Credit hours	16-17	Registration	18-21
Diploma application	26	Residence requirements	9-10
Dissertation	31-33	Schedule of study	16-17
Doctoral program	18, 29-34	Thesis	27-33
Examinations	24	Time limits on degrees	24
Extension work	13	Veterans affairs	47
Extramural study	11-13	Week-end courses	14

Admission Procedure

Candidates for admission should write to Dean Ralph A. Sawyer, Horace H. Rackham School of Graduate Studies, University of Michigan, requesting an application blank. They should also have official transcripts of their academic records sent to the Dean. Applications and supporting credentials should be received in the Admissions Office, Horace H. Rackham School of Graduate Studies, Ann Arbor, not later than the following dates:

Fall semester, 1963	August 1, 1963
Spring semester, 1964	December 1, 1963
Summer, 1964	May 15, 1964

An application fee of five dollars (\$5.00) is charged for each application for admission to the Horace H. Rackham School of Graduate Studies.

Any other correspondence relating to admission requirements, courses, opportunities in the profession, and the like, should be addressed to Professor R. H. Gjelsness, Chairman of the Department of Library Science. A personal questionnaire which must be submitted by all students will be sent on request. It will expedite the admission if this is requested from the Chairman of the Department

at the time the application is submitted to the Graduate School. The departmental office is Room 314, General Library.

A personal interview with some member of the staff of the Department of Library Science, or with an authorized representative, is further required of all applicants for admission to this Department.

Registration Procedure

Registration materials for the first and second semesters will be available several days prior to the registration period. For registration purposes the student body has been divided into alphabetical groups, and each group has been allotted a definite time for admission to the gymnasiums for registration. Deviation from this alphabetical schedule is not permitted. **The registration schedules are printed on pages 36 and 37 of this announcement.**

For graduate students the registration procedure is as follows:

1. Students enrolling in the Graduate School for the first time should report to the office of the Horace H. Rackham School of Graduate Studies. Registration forms may be obtained in this office upon presentation of the admission certificate.
2. For students previously enrolled in the Graduate School, registration material will be available in the same office.
3. The student should then report to the Library Science Office, Room 314 General Library, for consultation with an adviser and approval of course elections.
4. Health Service approval is necessary for (1) full-time students or part-time students entering the University for the first time, and (2) students re-entering the University after an absence of one semester or more.
5. For students working toward a degree, the election card and page 2 or 3 of the schedule of study must be filled out in conjunction with the adviser, and the student must obtain the signature of his adviser on both the election card and the schedule of study. A student not working toward a degree, whether he be a full-time or part-time student, may have his election card signed by the Dean. One class card is to be filled out for each course elected.
6. Registration will be completed in Waterman Gymnasium at the time allotted to the student's alphabetical group. All forms

must be completely filled out before the student enters the building. Students should plan to be in Ann Arbor one day in advance of the scheduled registration period to allow time for completing the forms and consulting with an adviser.

Diploma Application

A student should file a diploma application in the office of the Graduate School early in the semester or summer session (see calendar) in which he expects to receive a degree. If he does not complete his work in the session during which the application is filed, it is necessary to renew his application early during the succeeding session in which he expects his degree.

Description of Courses

Any course prerequisites or restrictions in the following courses appear in *italics*. Where no prerequisite or restriction is given, none applies. The Roman numeral indicates the semester in which the course is given: the first semester—I, the second semester—II. The *italic* number enclosed in parentheses indicates the number of hours credit for the course: (3) denotes three hours credit. The asterisk (*) indicates courses offered chiefly in summer sessions. Class periods are indicated for courses scheduled to be offered this year.

The prerequisite for Library Science 401, 431, 442, 465, 470, and 547 is at least junior standing in the University. The prerequisite for courses numbered 650 and above is one or more of the following: Library Science 513, 517, 521, and 529.

In addition to regularly elected courses, new students are urged to keep open the hour of 11:00–12:00 on Wednesdays to participate in a series of orientation conferences, library visits, and special lectures.

401. Introduction to Bibliography. I. MWF 9. (3) MURPHY.

Aids university students in a more effective use of library resources; the card catalog as the key to library collections, and a survey of some of the most useful reference books and bibliographies.

431. Organization of Materials in the School Library. I. S 8–10. (2) VANCE.

Practical methods of ordering, cataloging, and arranging library materials for effective use in small schools, either elementary or secondary. Not open to students who have had Library Science 517.

442. Curriculum Materials in the School Library. II. S 8–10. (2) VANCE.

Evaluation and selection of curriculum materials for use by teachers and pupils in the classroom. Includes both book and nonbook materials for both elementary and secondary levels.

***453–460. Workshops on School Library Problems and Library Service to Young People. (2). Last two weeks of the summer session.**

A different phase of library service to children and young people is emphasized each summer. Among the special topics considered are book selection problems for school libraries, relation of classroom libraries to the central library in the school, and school and public library services to young people. It is expected that participants will bring specific problems which may be considered by the workshop group through lectures, discussions, reports, and conferences.

465(Educ. D465). Literature for Children. I and II. I, Sec. 1, MF 11, Sec. 2, W 7-9; Sec. 3, Th 7-9; II, Sec. 1, TuTh 8, Sec. 2, W 7-9, Sec. 3, Th 7-9. (2) DAVIS, MADDOX, MILLER, and SCHMITZ.

The evaluation of books for children aged three to twelve. Fiction, folklore, poetry, illustration, and informational books are considered, with emphasis on the development of standards for selecting materials with reference to the interests, needs, and abilities of children and the enrichment of the school curriculum.

470(Educ. D470). Literature for Young People. I and II. I, Sec. 1, TuTh 1, Sec. 2, W 4-6; II, Sec. 1, TuTh 1, Sec. 2, Th 4-6. (2) JONES and SCHMITZ.

Reading interests of boys and girls of high school age, the characteristics of appropriate books, and methods of introducing young people to books.

476. School Library Administration. *Prerequisite: graduate standing or permission of the Department.* I and II. I, Tu 4-6; II, W 4-6. (2) VANCE.

Organization and administration of elementary and secondary school libraries as school and community service agencies.

503(Mus.Lit.503). Bibliography of Music Literature. I. TuTh 1. (2) WEICHLEIN.

Subjects covered include: books and periodicals about music, with an emphasis on the bibliographic control of timely information; the history and processes of music printing, copyright, and publication; the bibliography of printed and recorded music; and, for Library Science students, a summary of the history and organization of music.

513. The Library as a Public Service Institution. I and II. I, Sec. 1, MWF 12, Sec. 2, MWF 1; II, MWF 1. (3 each) CARTER and BOKS.

The function, organization, and service of libraries, particularly the public library. A field trip is required.

514. Library Administration. *Prerequisite: Lib. Sci. 513.* II. W 3-5. (2) CARTER.

The library as an agency of public administration: its governmental relationships and administrative activities, including personnel, public relations, and financial support.

517, 518. Classification and Cataloging. *Lib. Sci. 517 is a prerequisite for Lib. Sci. 518.* 517. I, MWThF 10 or 2; II, MTuWF 9, (4); 518, II, MWF 10 or 2. (3) BIDLACK and MURPHY.

The description of books, their organization for service in libraries and subject representation in the catalog. Underlying principles and their application.

521. Bibliography and Principles of Book Selection. I and II. I, MWF 2 or 3; II, MWF 10. (3) CARTER and BOKS.

Sources of information about books for purchase and appraisal, with

emphasis on the current and contemporary; the book trade; publication and marketing of books and their procurement by libraries; bases for selecting books in theory and practice; policies governing the building and maintenance of library collections.

522. Evaluation and Development of the Book Collection. *Prerequisite:* *Lib. Sci.* 521. II. (3) BONS.

The evaluation and selection of books for readers, with emphasis on books in the social and the natural sciences.

529. General Reference Materials. I and II. I, Sec. 1, MWF 9, Sec. 2, MWF 10; II, MWF 8. (3) KILGOUR and BONS.

Study of the basic types of reference materials, including encyclopedias, dictionaries, yearbooks, biographical works, bibliographies, periodical indexes. Some time will be devoted to the compilation of a bibliography upon a topic selected by the student.

547. History of Books and Printing. *Prerequisite:* permission of the Department. I and II. Tu 2-4. (3) KILGOUR.

The development of the book in its various forms from earliest times to the beginning of the twentieth century. History of the alphabet and writing; early writing materials, books in manuscript; history and technique of printing; book illustration and binding; standards of modern fine printing.

615. Reading Interests of Adults. *Prerequisite:* *Lib. Sci.* 521 or permission of the instructor. I, Th 2-4; II, Tu 2-4. (2) CARTER.

A survey of recent investigations of adult reading interests and adult learning. The purposes and organization of reader's advisory services and adult education programs are considered in relation to the development of reading interest.

620. Bibliography of the Social Sciences. I and II. I, MWF 8; II, MWF 9. (3) KILGOUR and KRUZAS.

Study of reference books, reviewing media, and the application of general reference works of broad scope to the field covered, including anthropology, business, economics, education, geography, history, political science, sociology, and other closely related areas.

623. Bibliography of Science. I. TuTh 9. (2) KRUZAS.

Study of reference books, reviewing media, and the application of general reference works of broad scope in the pure sciences, including astronomy, biology, botany, chemistry, geology, mathematics, meteorology, physics, zoology, and other closely related areas.

626. Bibliography of the Humanities. II. TuTh 9. (2) KILGOUR.

Study of reference books, reviewing media, and the application of general reference works of broad scope to the fields covered, including fine arts, folklore, literature, music, philosophy, psychology, religion, and other closely related areas.

650. Documentation of Scientific Literature. *Prerequisite: Lib. Sci. 623 or permission of the instructor.* II. M 3-5. (2) KRUZAS.

The development of scientific and technical literature with a study of methods which have been evolved to record and to make this literature available.

***652. Electronic Information Systems for Libraries.** *Prerequisite: basic courses in cataloging and classification or permission of the instructor.* (2).

Lectures on classification, subject headings, co-ordinate indexing, telegraphic abstracting, and the logic used in manual and mechanized information services. Topics which must be considered in the design of small and large information systems in libraries, and an outline of the essential items for electronic information systems for large research libraries. Includes investigation of certain techniques, the small-scale preparation and use of a co-ordinate index, and investigation of the electronic retrieval of information.

665. Special Materials. *Prerequisite: Lib. Sci. 521 or permission of the instructor.* I. S 10-12. (2) JONES.

The organization and administration of nonbook materials, with emphasis on their use as reference tools in school and community libraries. Includes pamphlets, pictures, clippings, films, records, slides, maps, and posters.

675. Periodical Literature. *Prerequisite: Lib. Sci. 521 or permission of the instructor.* I. Th 10-12. (2) GJELSNES.

An historical survey of the growth of periodical literature from 1731 to the present with emphasis on particular publications representing trends and special subject matter. Evaluation of current issues and back files of periodicals for libraries. Problems in selection, organization, and servicing.

686. Storytelling. *Prerequisite: Lib. Sci. 465.* II. Th 2-4. (2) WESSEL.

Study of literary sources of storytelling, with particular emphasis on folk literature. Technique and practice of storytelling.

688. Library Work with Children. II. (2).

Organization and administration of library service to children by public libraries. Special emphasis upon activities to promote the use of books.

691. History of Children's Literature. I. Th 4-6. (2) BIDLACK.

Survey of the development of literature for children from the invention of printing to the twentieth century. Representative authors and titles of each period are studied and discussed. Folklore is given considerable attention; also publishing for children and children's magazines.

- *700. Seminar in School Library Administration.** *Prerequisite: Lib. Sci. 476 or permission of the instructor.* (2).

Special problems in the organization and administration of school libraries.

- 708. History of Printing in the Americas.** II. (2) KILGOUR.

The history of printing in North and South America, with particular emphasis on the United States. Book collecting; early American printing; modern book designers and fine printing; book illustration and binding.

- 709. History of Publishing.** *Prerequisite: Lib. Sci. 521.* I. (2) GJELSNES.

History of publishing in the United States, chiefly of the nineteenth century, with emphasis on Isaiah Thomas and Mathew Carey. Study of copyright law and its impact on book production and distribution of books in different periods and countries.

- 726. History of Libraries.** *Prerequisite: Lib. Sci. 513.* II. (2) BIDLACK.

The gathering of books and similar materials into collections for personal and public use from the earliest times of record keeping to the present, with particular emphasis on the foundations and development of library service in the United States.

- 738. Special Libraries.** II. S 10-12. (2) KRUZAS.

A survey of the major categories of special libraries and collections, with a study of the methods of acquiring, arranging, and administering library materials in such fields.

- 740. Medical and Technical Libraries.** *Prerequisite: Lib. Sci. 513 or permission of the instructor.* II. W 6:30-8:30 P.M. (2) KRUZAS.

A survey of the literature and organization of special libraries in the fields of medicine and applied science.

- *749. Business Information Services.** (2).

A survey of the sources useful in business information service: trade, business, professional, and technical directories, periodicals, and associations; collegiate bureaus of business research; government agencies; and commercial research organizations, with problems on their use.

- *751. United States Government Publications.** *Minimum prerequisite: Lib. Sci. 529.* I. Tu 7-9. (2) KRUZAS.

Selection and acquisition of government publications, their care and use in the library. Includes some work on British and Canadian publications.

- *754. Documents of International Organizations.** (2).

The acquisition, organization, and reference uses of the publications of inter-governmental and international nongovernmental organizations, and of international congresses, emphasizing the documents of the United Nations and its specialized agencies (FAO, ILO, UNESCO, etc.); lectures

and readings on the structure of typical organizations as it determines the publication and distribution of their documents, and practice in the use of appropriate indexes and bibliographies.

***762. Library Buildings and Their Equipment. (2).**

Presupposes an elementary knowledge of library planning. The effect of the new methods of collegiate instruction upon the physical plant in the library. Comparative study of public, college, and university library buildings and their equipment. Many types of buildings will be examined for class discussions and reports. Details of equipment will be emphasized.

764. Library of Congress Classification. Prerequisite: Lib. Sci. 517. I, Tu 10-12; II, Tu 10-12. (2) GJELNESS, JONES, and MURPHY.

The classification of the national library and its adaptability to large book collections. Includes for comparative purposes other classifications, among them the Cutter Expansive, Dewey Decimal, Colon, and Harvard Business classifications. Lectures and problems.

771-772. Directed Reading. I and II. Hours and credit to be arranged. GJELNESS and staff.

A program of directed study in a special area under the supervision of a faculty member. Individual conferences and reports. Plan for the study should be approved in advance by the Chairman of the Department.

780. National and Regional Bibliography. Prerequisite: Lib. Sci. 521. II. MF 12. (3) BONE.

Record of the book trade in various countries and periods. A study of British, French, Dutch, German, Italian, and Spanish bibliography. Similar and more detailed work on American bibliography.

805. Advanced Studies in Cataloging. Prerequisite: Lib. Sci. 517 and 518 or permission of the instructor. II. (2) BIDLACK.

Co-operative cataloging and typical union catalogs. Comparison of important European and American catalog codes. The particular problems involved in describing certain types of special material: maps, music, etc.

***809. Seminar in College Library Administration. (2).**

The function and the opportunity of the library in the college organization. The budget, the staff, problems concerning techniques peculiar to the college library, departmental collections, publications, relations with the faculty, extracurricular and extramural activities, the building and its equipment, reports and statistics.

816. Seminar in Cataloging and Classification. Prerequisite: Lib. Sci. 517 and 518 or permission of the instructor. II. (2).

Administrative, organizational, and technical problems of catalog departments.

825. Bibliography of English History and Literature. *Limited to advanced students, particularly those on the doctoral level. I, M 3-5. (3) KILGOUR.*

The application of bibliographical research in the study of English history and English literature, elaborated through the discussion, examination, and evaluation of bibliographic works, source materials, and standard scholarly publications in the respective fields.

***826. Bibliography of American History and Literature.** *Minimum prerequisite: Lib. Sci. 529. (3).*

The application of bibliographical research in the study of American history and American literature elaborated through the discussion, examination, and evaluation of bibliographic works, source materials, and standard scholarly publications in the respective fields.

***831. Bibliography of the Fine Arts.** *Minimum prerequisite: Lib. Sci. 529. (2).*

The application of bibliographical research in the study of the literature of music, architecture, sculpture, painting, etching, and engraving, elaborated through discussion, examination, and evaluation of bibliographic works, records, and standard scholarly publications in the respective fields.

850. Seminar in University Library Administration. *Prerequisite: Lib. Sci. 513. II. Th 10-12. (2) GJELSNESS.*

A study of problems in the organization and administration of university libraries. Emphasis is on present and projected needs with respect to personnel, book collections, buildings and services. Reports and research papers are required for class presentation.

901, 902. Directed Research. 901, I; 902, II. Hours and credit to be arranged. GJELSNESS and staff.

(a) Administration, GJELSNESS and CARTER; (b) Classification and Cataloging, GJELSNESS and BIDLACK; (c) Bibliography, KILGOUR; (d) Public Libraries, CARTER and BONE; (e) School Libraries, MILLER and VANCE; (f) Special Libraries, CARTER and KRZAS.

Proposed studies should be presented to the Chairman of the Department for approval in advance of registration.

949. Directed Reading and Research. I and II. Hours and credit to be arranged. GJELSNESS and staff.

Provides doctoral students with special individual study under the direction of a faculty member.

999. Thesis. I and II. Hours and credit to be arranged. GJELSNESS and staff.

FIRST SEMESTER 1963 CLASS SCHEDULE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	620 KRUZAS		620 KRUZAS		620 KRUZAS	431 VANCE
9	401 MURPHY 529 (1) KILGOUR	623 KRUZAS	401 MURPHY 529 (1) KILGOUR	623 KRUZAS	401 MURPHY 529 (1) KILGOUR	431 VANCE
10	517 (1) BIDLACK 529 (2) BONK	764 GJELSNESS, MURPHY	517 (1) BIDLACK 529 (2) BONK	517 (1) BIDLACK 675 GJELSNESS	517 (1) BIDLACK 529 (2) BONK	665 JONES
11	465 (1) SCHMITZ	761 GJELSNESS, MURPHY	Orientation and Library Visits OPEN TO ALL	675 GJELSNESS	465 (1) SCHMITZ	665 JONES
12	513 (1) BONK		513 (1) BONK		513 (1) BONK	
1	513 (2) CARTER	470 (1) JONES 503 WEICHEIN	513 (2) CARTER	470 (1) JONES 503 WEICHEIN	513 (2) CARTER	
2	517 (2) BIDLACK 521 (1) BONK	547 KILGOUR	517 (2) BIDLACK 521 (1) BONK	517 (2) BIDLACK 615 CARTER	517 (2) BIDLACK 521 (1) BONK	
3	521 (2) CARTER 825 KILGOUR	547 KILGOUR	521 (2) CARTER	615 CARTER	521 (2) CARTER	
4	825 KILGOUR	476 VANCE	470 (2) SCHMITZ	691 BIDLACK		
5		476 VANCE	470 (2) SCHMITZ	691 BIDLACK		
7-9		751 KRUZAS	465 (2) DAVIS	465 (3) MADDOX		

SECOND SEMESTER 1964 CLASS SCHEDULE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	529 BOK	465 (1) SCHMITZ	529 BOK	465 (1) SCHMITZ	529 BOK	442 VANCE
9	517 MURPHY 620 KILGOUR	517 MURPHY 626 KILGOUR	517 MURPHY 620 KILGOUR	626 KILGOUR	517 MURPHY 620 KILGOUR	442 VANCE
10	518 (1) MURPHY 521 CARTER	764 GJELSNES, JONES	518 (1) MURPHY 521 CARTER	850 GJELSNES	518 (1) MURPHY 521 CARTER	738 KRUZAS
11		764 GJELSNES, JONES	STUDENT CONVOCATIONS		850 GJELSNES	738 KRUZAS
12	780 BOK				780 BOK	
1	513 BOK	470 (1) JONES	513 BOK	470 (1) JONES	513 BOK	
2	518 (2) MURPHY	547 KILGOUR 615 CARTER	518 (2) MURPHY	650 KRUZAS 686	518 (2) MURPHY	
3	650 KRUZAS	547 KILGOUR 615 CARTER	514 CARTER	686		
4	650 KRUZAS		476 VANCE 514 CARTER	470 (2) SCHMITZ		
5			476 VANCE	470 (2) SCHMITZ		
6:30-8:30			740 KRUZAS			
7-9			455 (2) MILLER	4:55 (3) DAVIS		

Registration Schedules, 1963-1964

Each of the following groups of students is allotted a definite period for admission to the gymnasiums for registration. Please complete all registration forms distinctly and according to directions on the forms *before you enter the gymnasium*. Elections should be approved previously as specified in the *Announcement* of your school or college.

FALL SEMESTER, 1963

WEDNESDAY AUGUST 28, 1963		A.M.		P.M.	
8:00-8:10	Grj	-Guc	1:00-1:10	Joh	-Jones, J.
8:10-8:20	Gud	-Had	1:10-1:20	Jones, K.	-Kam
8:20-8:30	Hae	-Hall	1:20-1:30	Kan	-Ken
8:30-8:40	Halm	-Ham	1:30-1:40	Keb	-Ker
8:40-8:50	Han	-Hara	1:40-1:50	Kes	-Kni
8:50-9:00	Harb	-Harris	1:50-2:00	Kir	-Kni
9:00-9:10	Harriso	-Hatc	2:00-2:10	Knj	-Koth
9:10-9:20	Hatd	-Hd	2:10-2:20	Koti	-Krug
9:20-9:30	Hea	-Heis	2:20-2:30	Kruh	-Lami
9:30-9:40	Heit	-Henl	2:30-2:40	Lamj	-Lawre
9:40-9:50	Henm	-Her	2:40-2:50	Lawrf	-Leis
9:50-10:00	Hes	-Hile	2:50-3:00	Leit	-Lewi
10:00-10:10	Hilf	-Hod	3:00-3:10	Lewj	-Lit
10:10-10:20	Hoe	-Holl	3:10-3:20	Liu	-Luca
10:20-10:30	Holm	-Hom	3:20-3:30	Luc	M(a)cCiel
10:30-10:40	Hon	-How	3:30-3:40	M(a)cClem	-M(a)cGi
10:40-10:50	Hox	-Hui	3:40-3:50	M(a)cGj	-M(a)cMa
10:50-11:00	Huj	-Hur	3:50-4:00	M(a)cMb	-Mall
11:00-11:10	Hus	-Inn	4:00-4:10	Malm	-Marsg
11:10-11:20	Ino	-Jack	4:10-4:20	Marsh	-Mat
11:20-11:30	Jacl	-Jog	4:20-4:30	Mau	-Mere
THURSDAY AUGUST 29, 1963		A.M.		P.M.	
8:00-8:10	Merf	-Miller, E.	1:00-1:10	Sa	-Sarg
8:10-8:20	Miller, F.	-Miz	1:10-1:20	Sarh	-Schl
8:20-8:30	Mj	-Moro	1:20-1:30	Schm	-Schwartz, R.
8:30-8:40	Morp	-Munm	1:30-1:40	Schwartz, S.	-Send
8:40-8:50	Munn	-Nax	1:40-1:50	Sene	-Shel
8:50-9:00	Nay	-Ne	1:50-2:00	Shem	-Siel
9:00-9:10	Ni	-Nz	2:00-2:10	Siem	-Sk
9:10-9:20	Oa	-Opa	2:10-2:20	Sl	-Smith, L.
9:20-9:30	Opb	-Pak	2:20-2:30	Smith, M.	-Sol
9:30-9:40	Pal	-Pats	2:30-2:40	Som	-Stah
9:40-9:50	Patt	-Pere	2:40-2:50	Stai	-Steu
9:50-10:00	Perf	-Pick	2:50-3:00	Stev	-Sto
10:00-10:10	Piel	-Pop	3:00-3:10	Stp	-Sup
10:10-10:20	Poq	-Pri	3:10-3:20	Suq	-Tas
10:20-10:30	Prj	-Ram	3:20-3:30	Tat	-Thomp
10:30-10:40	Ran	-Reid, S.	3:30-3:40	Thomq	-Toml
10:40-10:50	Reid, T.	-Richa	3:40-3:50	Tomm	-Tup
10:50-11:00	Richb	-Roberts	3:50-4:00	Tuq	-Vandeq
11:00-11:10	Robertso	-Rop	4:00-4:10	Vander	-Ver
11:10-11:20	Roq	-Rot	4:10-4:20	Ves	-Walc
11:20-11:30	Rou	-Rz	4:20-4:30	Wald	-Wark
FRIDAY AUGUST 30, 1963		A.M.		P.M.	
8:00-8:10	Warl	-Webe	1:00-1:10	Brb	-Brown, F.
8:10-8:20	Webf	-Wer	1:10-1:20	Brown, G.	-Buc
8:20-8:30	Wes	-Wh	1:20-1:30	Bud	-Bur
8:30-8:40	Wi	-Willi	1:30-1:40	Bus	-Cam
8:40-8:50	Willj	-Wole	1:40-1:50	Can	-Car
8:50-9:00	Wold	-Wre	1:50-2:00	Cas	-Ci
9:00-9:10	Wrf	-Yz	2:00-2:10	Cj	-Con
9:10-9:20	Za	-Zz	2:10-2:20	Coo	-Cro
9:20-9:30	Aa	-Alc	2:20-2:30	Crp	-Daz
9:30-9:40	Ald	-Anderse	2:30-2:40	Dh	-Din
9:40-9:50	Andersf	-Ark	2:40-2:50	Dio	-Dup
9:50-10:00	Arl	-Bab	2:50-3:00	Duq	-En
10:00-10:10	Bac	-Baq	3:00-3:10	Ed	-Fil
10:10-10:20	Bar	-Bas	3:10-3:20	Fim	-Fran
10:20-10:30	Bat	-Bec	3:20-3:30	Frag	-Gau
10:30-10:40	Bed	-Benr	3:30-3:40	Gav	-Goldl
10:40-10:50	Bens	-Bes	3:40-4:00	Goldm	-Gri
10:50-11:00	Bet	-Blac			
11:00-11:10	Blad	-Boe			
11:10-11:20	Bof	-Bot			
11:20-11:30	Bou	-Bra			

SATURDAY AUGUST 31, 1963

Any student may register from 9:00 to 11:00 A.M. Saturday registration is inadvisable, however, as many sections of course offerings will be closed.

SPRING SEMESTER, 1964

MONDAY

JANUARY 13, 1964

A.M.		P.M.	
8:00-8:10	Lawrf	1:00-1:10	Merf
8:10-8:20	Lef	1:10-1:20	Miller, F.
8:20-8:30	Leit	1:20-1:30	Mj
8:30-8:40	Levj	1:30-1:40	Morp
8:40-8:50	Lewj	1:40-1:50	Munn
8:50-9:00	Lio	1:50-2:00	Nay
9:00-9:10	Liu	2:00-2:10	Nf
9:10-9:20	Lov	2:10-2:20	On
9:20-9:30	Lucb	2:20-2:30	Opb
9:30-9:40	Luu	2:30-2:40	Pal
9:40-9:50	M(a)cClem	2:40-2:50	Patt
9:50-10:00	M(a)cDoo	2:50-3:00	Perf
10:00-10:10	M(a)cGj	3:00-3:10	Picl
10:10-10:20	M(a)cLb	3:10-3:20	Poq
10:20-10:30	M(a)cMb	3:20-3:30	Prj
10:30-10:40	Mai	3:30-3:40	Ran
10:40-10:50	Malm	3:40-3:50	Reid, T.
10:50-11:00	Marb	3:50-4:00	Richb
11:00-11:10	Marsh	4:00-4:10	Robertso
11:10-11:20	Maab	4:10-4:20	Roq
11:20-11:30	Mau	4:20-4:30	Rou
			-Miller, E.
			-Miz
			-Moro
			-Munnn
			-Nax
			-Ne
			-Nz
			-Opa
			-Pak
			-Pats
			-Pere
			-Pick
			-Pop
			-Pri
			-Ram
			-Reid, S.
			-Richa
			-Robertsn
			-Rop
			-Rot
			-Rz

TUESDAY

JANUARY 14, 1964

A.M.		P.M.	
8:00-8:10	Sa	1:00-1:10	Warl
8:10-8:20	Sarh	1:10-1:20	Webf
8:20-8:30	Schm	1:20-1:30	Wes
8:30-8:40	Schwartz, S.	1:30-1:40	Wi
8:40-8:50	Sene	1:40-1:50	Willj
8:50-9:00	Shem	1:50-2:00	Wold
9:00-9:10	Siem	2:00-2:10	Wrf
9:10-9:20	Sl	2:10-2:20	Za
9:20-9:30	Smith, M.	2:20-2:30	Aa
9:30-9:40	Som	2:30-2:40	Ald
9:40-9:50	Stai	2:40-2:50	Andersf
9:50-10:00	Stev	2:50-3:00	Arl
10:00-10:10	Stp	3:00-3:10	Bac
10:10-10:20	Suq	3:10-3:20	Bar
10:20-10:30	Tat	3:20-3:30	Bat
10:30-10:40	Thomq	3:30-3:40	Bed
10:40-10:50	Tomm	3:40-3:50	Bens
10:50-11:00	Tuq	3:50-4:00	Bet
11:00-11:10	Vander	4:00-4:10	Blad
11:10-11:20	Ves	4:10-4:20	Bof
11:20-11:30	Wald	4:20-4:30	Bou
			-Webe
			-Wer
			-Wh
			-Willi
			-Wolc
			-Wre
			-Yz
			-Zz
			-Aic
			-Anderse
			-Ark
			-Bab
			-Baq
			-Bas
			-Bec
			-Benr
			-Bes
			-Blac
			-Boe
			-Bot
			-Bra

WEDNESDAY

JANUARY 15, 1964

A.M.		P.M.	
8:00-8:10	Brb	1:00-1:10	Fim
8:10-8:20	Brown, G.	1:10-1:20	Fod
8:20-8:30	Bud	1:20-1:30	Frao
8:30-8:40	Bus	1:30-1:40	Ga
8:40-8:50	Can	1:40-1:50	Gav
8:50-9:00	Cas	1:50-2:00	Gilm
9:00-9:10	Chb	2:00-2:10	Grai
9:10-9:20	Cj	2:10-2:20	Hae
9:20-9:30	Cohf	2:20-2:30	Harris
9:30-9:40	Coo	2:30-2:40	Henm
9:40-9:50	Cov	2:40-2:50	Holm
9:50-10:00	Crp	2:50-3:00	Hus
10:00-10:10	Dan	3:00-3:10	Joh
10:10-10:20	Db	3:10-3:20	Kan
10:20-10:30	Denh	3:20-3:30	Kes
10:30-10:40	Dio	3:30-3:40	Knj
10:40-10:50	Dov	3:40-4:00	Kruh
10:50-11:00	Duq		
11:00-11:10	Eh		
11:10-11:20	Eo		
11:20-11:30	Fao		
			-Foc
			-Fran
			-Fz
			-Gail
			-Gill
			-Grah
			-Had
			-Harrisn
			-Henl
			-Holl
			-Hur
			-Jug
			-Kam
			-Ker
			-Kni
			-Krug
			-Lawre

SATURDAY

JANUARY 18, 1964

Any student may register from 1:00 to 4:00 P.M. Saturday registration is inadvisable, however, as many sections of course offerings will be closed.

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1963
1964

School of Music

**THE UNIVERSITY
OF MICHIGAN**

OFFICIAL PUBLICATION

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School of Music

1963-1964

Announcement

Published by the University Ann Arbor

Calendar, 1963-1964

FALL SEMESTER, 1963

Orientation periodAugust 27-31, Tuesday-Saturday
•RegistrationAugust 28-31, Wednesday-Saturday
Fall semester classes beginSeptember 3, Tuesday
Thanksgiving recess beginsNovember 27, Wednesday (evening)
Classes resumeDecember 2, Monday (morning)
Study dayDecember 13, Friday
Midyear GraduationDecember 14, Saturday
Examination periodDecember 16-21, Monday-Saturday
Fall semester endsDecember 21, Saturday

SPRING SEMESTER, 1964

Orientation periodJanuary 12-15, Sunday-Wednesday
•Registration . . . January 13-15, 18, Monday-Wednesday, Saturday P.M.
Spring semester classes beginJanuary 16, Thursday
Spring recess beginsMarch 21, Saturday (noon)
Classes resumeMarch 31, Tuesday (morning)
Study dayMay 8, Friday
Examination periodMay 11-16, Monday-Saturday
CommencementMay 23, Saturday

SUMMER, 1964

RegistrationJune 18-20, Thursday-Saturday (noon)
Classes beginJune 22, Monday
Independence Day, a holidayJuly 4, Saturday
Eight-week courses endAugust 15, Saturday

This calendar is subject to revision.

- For registration schedules, see pages 96 and 97.

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Administrative Officers and Staff

- HARLAN HATCHER, Ph.D., Litt.D., LL.D., *President of the University*
MARVIN L. NIEHUS, LL.B., *Executive Vice-President of the University*
ROGER W. HEYNS, Ph.D., *Vice-President for Academic Affairs*
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ALLEN P. BRITTON, Ph.D., *Associate Dean of the School of Music, Professor of Music Education, and Lecturer in the School of Education*
JOHN A. FLOWER, M.Mus., Ph.D., *Associate Dean of the School of Music and Associate Professor of Theory*

STAFF*

- CARL J. ALEXIUS, M.Mus., *Lecturer in Music*
CHASE BAROMEIO, A.M., M.Mus. (hon.), *Professor Emeritus of Voice*
LESLIE R. BASSETT, A.B., M.Mus., A.Mus.D., *Associate Professor of Theory-Composition*
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JERRY H. BILIK, M.Mus., *Lecturer in Music*
WALLACE S. BJORKE, A.M.L.S., *Music Librarian*
JOSEF BLATT, *Professor of Music, Director of Opera Production, and Conductor of the University Symphony Orchestra*
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RUTH DEAN CLARK, *Lecturer in Harp*
ALBERT COHEN, Ph.D., *Assistant Professor of Music*
K. PAUL COOPER, M.A., A.Mus.D., *Assistant Professor of Theory*
LEWIS H. COOPER, B.Mus., *Assistant Professor of Wind Instruments (Bassoon)*
ROBERT J. COURTE, Diplôme supérieur, Brussels, *Professor of Viola and Chamber Music and Violist of the Stanley Quartet*
RICHARD A. CRAWFORD, M.Mus., *Lecturer in Music Literature*

* Listed alphabetically for the academic year 1962-63.

- LOUISE E. CUYLER, M.Mus., Ph.D., *Professor of Music*
 ORIEN E. DALLEY, M.Mus., *Lecturer in the School of Music and the Extension Service and Music Consultant of the Broadcasting Service-Radio (WUOM)*
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 CHARLES R. FISHER, M.Mus., A.Mus.D., *Assistant Professor of Piano*
 SIDNEY F. GILES, Diplôme, L' Ecole de carillon, Malines, Belgium, *Assistant University Carillonneur*
 FRANCES GILLET, B.S., M.Mus., *Assistant Professor of Music Education, Director, Festival of Song, Broadcasting Service-Radio (WUOM), and Lecturer in the School of Education*
 IRVIN E. GILMAN, M.Mus., *Lecturer in Music*
 ROBERT E. GLASGOW, M.Mus., *Assistant Professor of Music*
 BARBARA HOLMQUEST GOTZ, Diploma, *Lecturer in Piano*
 ELIZABETH A. H. GREEN, M.Mus., *Associate Professor of Music Education and Lecturer in the School of Education*
 ARTHUR HACKETT, *Professor Emeritus of Voice*
 NELSON M. HAUSENSTEIN, M.Mus., *Associate Professor of Flute*
 HAROLD A. HAUGH, A.B., M.S.M., B.D., *Professor of Voice*
 THEODORE E. HEGER, B.A., M.Mus., *Professor of Music Literature, Secretary of the Faculty of the School of Music, and Concentration Adviser in Music, College of Literature, Science, and the Arts*
 RALPH HERBERT, Dr. at Law, Vienna, *Professor of Music*
 EMIL A. HOLZ, Mus.B., M.F.A., Ph.D., *Associate Professor of Music Education and Lecturer in the School of Education*
 MARGUERITE V. HOOD, B.A., M.M., Mus.D., *Professor of Music Education and Lecturer in the School of Education*
 ROBERT W. HORD, M.Mus., *Associate Professor of Piano*
 ROGER E. JACOBI, M.Mus., *Assistant Professor of Music Education and Lecturer in the School of Education*
 JEROME M. JELINEK, M.Mus., *Assistant Professor of Violoncello and Chamber Music and Cellist of the Stanley Quartet*
 ROBERT JOBE, M.Mus., *Lecturer in Music Literature*
 ALICE M. KERN, M.Mus., *Associate Professor of Piano*
 MAYNARD KLEIN, B.S., M.Mus., *Professor of Choral Music and Director of University Choirs*
 JOHN L. KOLLEN, *Professor of Piano*
 THELMA B. LEWIS, M.Mus., *Professor of Voice*
 CLIFFORD P. LILLYA, M.Mus., *Professor of Trumpet and Cornet*

- JOHN H. LOWELL, M.M., Ph.D., *Professor of Music*
 ALBERT LUCONI, Diploma Magistero, *Associate Professor of Clarinet* (on retirement furlough, 1962-63)
 JOSEPH E. MADDY, Mus.D., *Professor Emeritus of Music*
 WILLIAM MALM, M.M., Ph.D., *Assistant Professor of Music Literature*
 ARNO MARIOTTI, B.M., *Lecturer in Music*
 JOHN M. MCCOLLUM, B.A., *Associate Professor of Music*
 GLENN D. MCGEOCH, A.M., *Professor of Music Literature, History, and Criticism*
 JOHN D. MOHLER, A.Mus.D., *Assistant Professor of Music*
 EARL V. MOORE, A.M., Mus.D., D.F.A., *Dean Emeritus of the School of Music and Professor Emeritus of Music*
 FLORIAN F. MUELLER, M.Mus., *Professor of Oboe*
 GENEVA C. NELSON, B.S.M., M.S., *Associate Professor of Music Education and Lecturer in the School of Education*
 ROBERT NOEHREN, Mus.D., *Professor of Organ and Church Music, and University Organist*
 MARIAN A. OWEN, M.Mus., *Associate Professor of Piano*
 SANDRA J. PASCHAL, M.Mus., *Lecturer in Music*
 KURT W. PICKUT, M.Mus., *Lecturer in Piano Technology*
 PERCIVAL PRICE, Mus.Bac., *Professor of Campanology and University Carillon*
 WILLIAM D. REVELLI, Mus.D., LL.D., *Professor of Wind Instruments and Director of the University Bands*
 GILBERT ROSS, *Professor of Violin and Chamber Music and First Violinist of the Stanley Quartet*
 GUSTAVE A. ROSSELS, *Professor of Violin and Chamber Music and Second Violinist of the Stanley Quartet*
 JAMES D. SALMON, M.Mus., *Associate Professor of Percussion Instruments*
 GYORGY SANDOR, Diploma, Budapest, *Professor of Piano*
 GLENN P. SMITH, M.Mus., *Assistant Professor of Trombone*
 LOUIS J. STOUT, B.M., *Associate Professor of French Horn*
 WILLIAM H. STUBBINS, A.M., *Professor of Band Instruments and Research Associate in the University School*
 LAURENCE L. TEAL, M.Mus., *Assistant Professor of Wind Instruments*
 CLYDE H. THOMPSON, B.Mus., M.F.A., Ph.D., *Associate Professor of Double Bass and Violoncello*
 EUGENE W. TROTH, Ph.D., *Associate Professor of Music Education, Director of the University Division of the National Music Camp, and Lecturer in the School of Education*
 CLYDE VROMAN, Ph.D., *Associate Professor of Music Education and Director of Admissions of the University*
 ROBERT A. WARNER, Ph.D., *Professor of Music and Curator of the Stearns Collection of Musical Instruments*
 WILLIAM J. WEICHLEIN, M.Mus., Ph.D., *Assistant Professor of Music Literature*
 ANTHONY J. WHITMIRE, *Associate Professor Emeritus of Violin*
 GEORGE B. WILSON, A.Mus.D., *Lecturer in Composition*
 GEORGE J. ZACK, M.Mus., *Lecturer in Music*

SCHOOL OF MUSIC

The School of Music of The University of Michigan is a charter member (1923) of the National Association of Schools of Music. First organized in 1879 by the University Musical Society, it was known as the Ann Arbor School of Music until 1892 when the name was changed to University School of Music. The School was administered and maintained by the University Musical Society until 1929 and from that date until 1940 jointly by the University Musical Society and the Board of Regents. In 1940 the University Musical Society relinquished full control to the Board of Regents. Beginning with the academic year 1940-41 the Board of Regents has operated the School of Music as an integral unit of the University.

Purposes. To high school and preparatory school graduates who have demonstrated talent in music and who have studied an instrument or voice concurrently with secondary school attendance the School of Music offers specialized curriculums leading to the Bachelor of Music degree. Each curriculum provides opportunity to continue the serious study of music and to acquire at the same time a broad general education. To college graduates the School of Music offers curriculums leading to the Master of Music degree and, through the Horace H. Rackham School of Graduate Studies, curriculums leading to the degrees Master of Arts, Doctor of Education, Doctor of Musical Arts, and Doctor of Philosophy. Students enrolled in other units of the University may elect courses in the School of Music for which they are qualified and insofar as facilities are available.

Undergraduate Division

REQUIREMENTS FOR ADMISSION

AS A FRESHMAN

In general, admission as a freshman is by certificate from the high school from which the student graduates. Application for detailed information with the appropriate blank to initiate this procedure should be made to the Director of Admissions, 1220 Student Activities Building, Ann Arbor, early in the senior year. The application forms which will be sent by the Director of Admissions provide opportunity for the student to submit information about his high school courses and his precollege attainments

in music, whether or not such attainments appear as part of his high school record.

This record is processed by the admissions committee of the School of Music, which is more concerned with evidence of talent, conspicuous achievement and promise of development in music, and general scholarship than it is in the precise content of the program which the prospective music student has followed prior to admission to college.

The University welcomes the opportunity to consult with students and parents during the high school period either by correspondence or by interviews in Ann Arbor. These interviews, which may include auditions, are of special value in determining the appropriateness of a student's educational plan, his present level of development in music, and his tentative choice of curriculum in the School of Music.

To be prepared for the work of the freshman year in the School of Music it is imperative that the student have studied an instrument or voice for several years in addition to any participation in high school musical organizations. Therefore the recommendation of his music teachers as well as that of his high school principal or counselor is of great importance in determining the student's qualifications for admission to one of the departmental curriculums. In addition to the regular application blank, applicants for admission to the School of Music must submit supplementary information blanks covering their musical background.

Requirements. Admission to freshman standing in the School of Music is based upon the following requirements:

1. Graduation from an approved high school with a minimum of fifteen units.

2. Sufficient ability and skill in music to pursue successfully one of the curriculums of the School of Music. Evidence of ability and skill in music may be presented in part on the high school record and in part from other sources (in view of the fact that music often is studied outside of the school program).

3. Evidence of ability and preparation to pursue successfully courses in other academic fields which constitute a part of the desired curriculum. This evidence should include as part of the high school record:

- a) Three units in English.

- b) A minimum of seven other units selected from the fields of social studies or foreign languages or sciences or mathematics or any combination of these subjects. These may also include units of English above the required number.

- c) A sufficient number of units in other subjects accepted by the high school toward graduation to bring the total to fifteen. These may include vocational and nonvocational studies such as art, business education, home economics, agriculture, and shop courses. Credits in music which give evidence, in part, of ability and skill to succeed in the professional part of one of the curriculums as described in Section 2, above, will be included in this group.

Enrollment Deposit. In order to manage its over-all enrollment more efficiently and to guarantee each bona fide undergraduate student a place in that enrollment, the University requires a \$50 enrollment deposit for all undergraduate students, including special and nondegree candidates. Once established, the \$50 remains on deposit until the student applies for refund, thereby relinquishing his enrollment privilege for subsequent semesters.

Establishment. Each newly admitted undergraduate student, and each undergraduate student returning after an absence of one or more semesters, is required to pay this \$50 enrollment deposit in accordance with instructions provided by his admission office. Once established, this deposit is nonrefundable until after enrollment. "Summer only" students are not required to establish this deposit. The deposit must be made in the name of the student and, when applicable, will be refunded to the student.

Refund. The enrollment deposit is refundable upon proper *written application* to the Enrollment Deposit Section of the Office of Registration and Records. A student terminating undergraduate enrollment at the end of a semester must make *written request* for refund on or before the dates given as follows:

December 1—Fall semester student not returning as an undergraduate for the spring semester.

July 1—Spring semester student not returning as an undergraduate for the fall semester.

August 1—Summer semester student not returning as an undergraduate for the fall semester.

Payment of enrollment deposit refund will be made by check after the close of the semester. Approximately 30 days are required to process refunds.

A student who disenrolls during a semester should request refund prior to leaving the University. Any student disenrolling or failing to re-enroll due to University action may apply for refund of this deposit. Such request should be made *in writing* within 30 days after the University's action.

Forfeiture. Failure to apply for refund on or before specified dates and voluntary failure to enroll for the next succeeding semester (excluding summer) will result in forfeiture of this deposit.

Right of appeal. In case of forfeiture, the student may exercise the right of appeal through the Office of Registration and Records to the Enrollment Deposit Committee, whose decision is considered final.

Re-establishment of enrollment deposit. A student must obtain written approval from his admission officer to re-establish the \$50 enrollment deposit. Questions and correspondence concerning the enrollment deposit should be directed to the Enrollment Deposit Section, Office of Registration and Records.

AS A TRANSFER STUDENT

Application for admission to undergraduate advanced standing (undergraduate students transferring from other colleges) should be made to the Director of Admissions, 1220 Student Activities Building, Ann Arbor.

BACHELOR OF MUSIC DEGREE REQUIREMENTS

Several curriculums are available leading to the Bachelor of Music degree. Though certain courses are common to all of the curriculums, such as basic musicianship, history and literature of music, and English composition and literature, a major part of each curriculum is designed to provide the student with professional training in a specific field such as (1) public performance, (2) teaching one or more fields of music in a private studio or at the college level, or (3) teaching music in the elementary and secondary schools, which includes conducting bands, choirs, and orchestras. Reference to the departmental curriculums given elsewhere in this *Announcement* will indicate the variety of fields in which concentration takes place in the junior, senior, and graduate years. The choice of nonmusic courses required or elective in the several curriculums may be made from the rich and varied offerings of other schools and colleges of the University.

GENERAL REQUIREMENTS

Semester Hours of Credit. A minimum of 120 semester hours of credit with an average grade of C (honor-point average of 2.00) must be completed in order to be recommended for the Bachelor of Music degree. The course requirements of many curriculums, however, amount to totals higher than the minimum. For specific information in this regard consult the specific curriculum outlines given elsewhere in this *Announcement*. The normal course load per semester for undergraduates is fifteen hours; additional hours to a maximum of nineteen may be elected only with the approval of the student's undergraduate adviser. The maximum load in the summer session is nine hours.

A student is generally required to devote approximately three clock hours per week for each semester hour of undergraduate credit elected. One clock hour is normally spent in class and two in preparation, but the proportion varies considerably depending upon the nature of the course subject matter.

Senior Residence. Not less than twenty-four hours of courses required in the senior year must be completed while in residence, including all senior courses in the major field.

CURRICULUM REQUIREMENTS

In addition to the above general requirements, a student must meet the following curriculum requirements:

Each student will choose one of the departmental curriculums given elsewhere in this *Announcement*. His choice will be governed by his previous training and experience and should be approved by the adviser for the department concerned.

As the requirements of departmental curriculums are substantially identical in the first and second years, except for the major or principal applied music subject, it is possible for a student to change from his initial choice without serious disruption of his plans if the change is made before the third year. The work of the final two years leading to the Bachelor of Music degree is designed to give the student training in a field of specialization. Usually his department of specialization will be the one in which he has enrolled during his first two years.

Each student must complete, in addition to the one hundred and twenty hours of credit with a C average, courses and proficiencies specified for the department of specialization and, where required, a public recital or deposit of compositions.

The right is reserved to withhold the recommendation of a candidate for a degree with a major in performance (applied music) if, in the judgment of the faculty, the minimum hours of credit earned in performance do not represent adequate maturation and musicianship to merit the distinction of a degree without additional study. This provision is necessary because of possible individual differences in proficiency and musicianship at the time of admission.

Each student must present a minimum of thirty hours credit in non-music courses. Some departmental curriculums require more hours credit in nonmusic courses than the minimum. English 123 and 124 are required of all freshmen unless exempted by the English Department of the College of Literature, Science, and the Arts.

Two semesters of physical education are required for graduation and are usually elected in the freshman year. No semester hours of credit are given for physical education.

No course may be dropped after the fourth week of classes of each semester without permission of the dean. No course may be added after the first week of classes without permission of the instructor and adviser.

TRANSFER CREDIT

Collegiate credits earned elsewhere of C grade or better will be accepted for courses corresponding to those which students might elect at The University of Michigan.

Acceptable course credits earned in other institutions are recorded on the student's academic record at The University of Michigan, but grades

earned in those courses are not transferred or recorded by the University. This system assumes that the student's original transcript will carry his previous academic record adequately and avoids mixing the grades previously earned with grades earned subsequently in the University. Thus, only the grades earned in the University are used in computing the honor-point average for measuring the quality of work completed in residence here. This statement should in no way be taken to mean that previous courses and grades are not of equal importance with work completed in residence. It means simply that the transcript of each institution which the student attended constitutes the basic record of his academic achievement.

Not more than seventy-five semester hours of transfer credit can be applied toward the Bachelor of Music degree in the School of Music. No credit can be granted on the basis of examination alone.

No more than fifteen semester hours of extension and/or correspondence credit earned in other fully accredited institutions will be accepted. Students may present work from the Correspondence and Extension divisions of the University, however, to a maximum of thirty semester hours. Of these thirty, not more than fifteen hours may be taken in correspondence study. A maximum of thirty hours may be accepted for correspondence credit earned while in military service. This may include work taken through U.S.A.F.I. in which there was a satisfactory end-of-course test.

Each application for transfer is considered individually upon its merits. Adjustment of transfer credit is made during the first semester of the student's residence.

HONORS SCHOLAR PROGRAM

Nature of the Program. The Honors Scholar Program has been established for the very few and extraordinary students whose achievements, maturity, strength of purpose, capacity for learning, and above all, musical and scholarly promise are so outstanding that the School recognizes in them the need for and benefit of a program of individual study.

The honors scholar award may be compared to a scholarship since, like a scholarship, it testifies to the School's confidence in the student's future achievement. Instead of the monetary award of the usual scholarship, however, an honors scholar is granted certain freedom from standardized curricular programs. His program of studies and course elections is planned in terms of his own aims and capacities. Special studies under an honors tutor may be arranged.

Application and Selection of Honors Scholars. Honors scholars are selected once a semester from undergraduate applicants who have been in the School at least one academic year and whose grade average at the time of application is approximately 3.5 or higher.

Application must be made during the semester preceding the one in which the student hopes to enter the program. Forms are available in the

seventh week of the semester at the School of Music office. Application includes (a) a statement of purpose in which the applicant outlines a program of study and of course elections and explains why he believes the honors scholar program would benefit him and (b) individual recommendations from all teachers with whom the student is currently enrolled as well as from his major departmental adviser.

An Honors Council of faculty members reviews the applications. Before the end of the semester preceding the effective date of the awards the Council announces the honors scholars selected.

Studies Under the Program. Completion of his departmental requirements for graduation may be achieved by the honors scholar either by the usual course elections or by written approval of the department concerned.

The honors scholar planning to pursue special studies under tutorial guidance elects Music Honors 395. Studies in this course, as proposed in his statement of purpose, are planned by arrangement between the honors scholar, his adviser, the chairman of the Honors Council, and an honors tutor appointed by the chairman of the department in which such studies are to be pursued.

Encouragement and support are given the honors scholar for extra activities such as special recitals, public appearances, papers, radio and television broadcasts, etc.

Evaluation of Individual Studies. At the end of every semester each faculty member with whom the honors scholar is doing work submits a statement to the Honors Council concerning the scholar's achievement. On the basis of these statements the adviser may recommend that the scholar's award be renewed or revoked.

During the last semester preceding the honors scholar's graduation he is asked to report on his studies under the program to a panel of faculty members representing the fields of applied music, music education, music literature, and theory-composition.

Honors Seminar. Each honors scholar is required to elect Music Honors 396 or 397 (Honors Seminar) for at least one semester. The purpose of the seminar is to bring together superior students of the School of Music in a challenging atmosphere of discussion of provocative questions with the occasional participation of faculty members from other University areas.

RESERVE OFFICERS TRAINING CORPS

Each entering male freshman enrolled in The University of Michigan has the opportunity to enroll in the Army ROTC, the Naval ROTC, or the Air Force ROTC. Enrollment is voluntary, but the University and the Armed Forces expect each student who enrolls to meet the full obligations accepted.

Each ROTC unit offers an eight-semester sequence of courses which may be carried as electives with the student's degree program in order

to earn a reserve or regular commission along with the baccalaureate degree.

By voluntarily enrolling in Army or Air Force ROTC each student adds to his own degree requirements the completion of the freshman-sophomore program of either service; however, the University and the Professor of Military Science or the Professor of Air Science may jointly cancel this requirement whenever a valid reason for discontinuing the freshman-sophomore program is presented. Army ROTC cadets are normally expected to complete the basic program. Prior to the junior year the Army or Air Force student may apply to enter Advanced ROTC; if accepted, he adds to his degree requirements an obligation to complete the junior and senior year courses in military or air science. Contract students accepted in the Naval ROTC are enrolled in a four-year program leading to a commission in the Naval Reserve; however, contract students may be permitted by the Professor of Naval Science to withdraw for valid reasons during the first two years.

The three ROTC programs are described in detail in the *Announcement* of the College of Literature, Science, and the Arts (see under "Air Science," "Military Science," and "Naval Science"). School of Music students should consult their advisers before enrolling in any ROTC program, since such enrollment in certain instances may involve attendance for an additional semester in order to complete all degree requirements.

Graduate Division

REQUIREMENTS FOR ADMISSION

Admission to one of the several graduate programs offered by The University of Michigan with a major in any field of music is predicated upon completion of a bachelor's or master's degree in the same field obtained at The University of Michigan or other accredited institutions offering a comparable curriculum. Graduate work in music is offered in the Graduate Division of the School of Music and also in the Horace H. Rackham School of Graduate Studies. Prospective students should apply for admission to one or the other of these schools depending upon the specific degree desired.

Music may be a field of concentration for these graduate degrees: Master of Music, Master of Arts, Doctor of Philosophy, Doctor of Education, and Doctor of Musical Arts.

The requirements for the degree Master of Music are administered directly by the Graduate Division of the School of Music. They are

described in detail on the following pages. Inquiries for the form *Application for Admission to the Graduate Division* of the School of Music should be directed to the Associate Dean, School of Music, Ann Arbor. The information submitted in this application and an official transcript to be forwarded by the institution from which the student received his baccalaureate degree will be reviewed by the admissions committee and a representative of the proposed department of specialization. If credit has been earned in more than one institution a transcript from each must be submitted. Admission to graduate standing does not imply admission to candidacy for the degree. The degree Master of Music is offered with majors in applied music (instruments and voice), composition, music education, music literature, church music, and theory.

The requirements for the degrees Master of Arts, Doctor of Philosophy, Doctor of Education, and Doctor of Musical Arts are administered by the Horace H. Rackham School of Graduate Studies. Students desiring to enroll for any one of these degree programs should apply to the Associate Dean, Horace H. Rackham School of Graduate Studies, University of Michigan, Ann Arbor, for the *Announcement* and application forms. When making inquiry, be sure to specify the field of music and the degree in which you are interested. Admission to graduate standing in any of these programs does not imply admission to candidacy for the degree. The degree Master of Arts is offered only in composition, music literature, and musicology. The various doctoral degrees are offered with majors in composition, music education, musicology, and music performance (instruments and voice).

MASTER OF MUSIC DEGREE REQUIREMENTS

GENERAL REQUIREMENTS

Semester Hours of Credit. A minimum of 30 semester hours of graduate credit with an average grade of B (honor-point average of 3.00) must be completed in order to be recommended for the Master of Music degree. A maximum of six approved semester hours may be transferred from other accredited institutions (see below). The normal course load per semester for graduate students is twelve hours; additional hours to a maximum of fifteen may be elected only with the approval of the student's graduate adviser. The maximum load in the summer session is nine hours.

Residence. For students who meet in full the admission requirements whether graduates of The University of Michigan or of other colleges and universities of approved and recognized standing, the minimum residence requirement is the equivalent of one academic year of full work (24 semester hours). When a student begins degree work with deficiencies, the length of time it takes to complete his degree will be increased propor-

tionately. A student may begin work toward the Master of Music degree in any semester or summer session. Because of the interruption of continuous study necessitated by enrollment in summer sessions only, it is seldom possible for a student majoring in applied music to complete graduation requirements by attending only summer sessions.

Transfer Credit. A petition for transfer of graduate credit earned at another institution will not be considered until the candidate has been in residence for a semester or two summer sessions. Not more than six hours of course credit of the required thirty hours may be accepted for work done outside of this University. Graduate credit will be given only for work completed in a school or college whose graduate work is accredited.

Double Registration. An undergraduate student in the School of Music within six hours of completion of the Bachelor of Music degree may, with permission, register for a graduate and undergraduate program and receive graduate credit for the work done beyond the Bachelor of Music degree.

A student is permitted such double enrollment for one semester only and must receive the bachelor's degree at the end of that particular semester.

Time Limit. A student enrolled for the Master of Music degree may have six years after beginning such work to meet degree requirements. If the degree is not granted within the six years, he must meet the requirements of the *Announcement* in force during the year or summer session in which he graduates. The time limit does not apply to students whose residence study has been interrupted by military service.

CURRICULUM REQUIREMENTS

The candidate for the degree Master of Music must present at least thirty hours in courses approved for graduate credit, which must include a major and a minor field of concentration. Approximately one half of the credit must be in the major field and one fourth in the minor field; the remainder of the thirty hours will be elective courses, music or nonmusic, selected from areas other than the major or minor fields.

A *grade average of B* is required for all courses elected. More work is required of graduate students taking courses numbered 300 to 400 for graduate credit than is required of undergraduate students taking the same courses.

The work in the *major field*, in addition to intensive and extensive coverage of the subject matter, should culminate in tangible evidence of the capacity and ability of the student to organize and present the specific materials of his subject and to demonstrate his independence of thought, his critical powers, his interpretive capacities, and his potentialities as a scholar and as a musician. This tangible evidence may take the form of a

thesis or composition or project, comprehensive examination, or public recital.

The right is reserved to withhold the recommendation of a candidate for a degree with a major in performance (applied music) if, in the judgment of the faculty, the minimum hours of credit earned in performance do not represent adequate maturation and musicianship to merit the distinction of a degree without additional study. This provision is necessary because of possible individual differences in proficiency and musicianship at the time of admission.

PROFICIENCY REQUIREMENTS FOR ACCEPTANCE IN A MAJOR FIELD OF SPECIALIZATION

Graduates of the School of Music who propose to continue the same major in the master's degree as in the baccalaureate degree must obtain approval from the department concerned. The applicant who has not received his degree from this University must present evidence of substantially the same preparation in his proposed major field as is required in the departmental program in this *Announcement*.

PERFORMANCE (APPLIED MUSIC)

Instrument or Voice. Repertory requirements are substantially comparable to the sum total of repertory as described in courses 139, 140, 239, 240, 339, 340, 439, 440 in the instrument or voice. Evidence of maturity in technical skills and interpretive qualities will be presented before a faculty jury during the first semester of residence. Students who do not meet these requirements in full will elect a preparatory course in the appropriate performance department until they have been approved for candidacy in that major field.

Organ. In addition to the major in organ and a minor in theory or its equivalent, as described in this *Announcement*, proficiency in piano must include the ability to perform during the first registration period a Mozart sonata, two Bach three-part inventions, and two preludes and fugues from *The Well-Tempered Clavier*.

COMPOSITION

Approval of a major in composition will be based upon evidence of creative talent and knowledge of craftsmanship in writing music. This may be demonstrated by submission of several compositions comparable to those specified in this *Announcement* for courses 439 and 440 in composition.

MUSIC EDUCATION

The applicant should specify which of the three undergraduate curriculums in music education—choral, general, or instrumental—he wishes to continue in or transfer to for his graduate study. The one selected for his major in the Master of Music degree is the one against which his baccalaureate courses will be checked.

Curriculums in music education leading to the Bachelor of Music degree as offered in other accredited schools and colleges normally provide sufficient training in performance, theory, music literature, and music education to enable graduates to meet the requirements for admission to one of the programs leading to the master's degree offered by this department.

Regardless of the degree offered as a basis for admission to graduate standing, students entering the Master of Music program in music education who are not graduates of The University of Michigan in music education will be examined in the following areas at the time of registration:

1. *Music Education*. Philosophy, methods, and materials.
2. *Theory*. Analysis, harmony and counterpoint, keyboard harmony, and dictation.
3. *Conducting*. Proficiency represented by completion of one year of undergraduate conducting.
4. *Performance*. Before a student may elect graduate work in performance he will be required to show by audition a proficiency above the course numbers listed below:
 - a) Choral curriculum. Piano 220 and Voice 424.
 - b) General curriculum. Piano 218; Voice 222; principal orchestra or band instrument, Course 222; one secondary string instrument, Course 111; one secondary wind instrument, Course 111.
 - c) Instrumental curriculum. Principal instrument, Course 222 in wind, string, or percussion; Piano 112; one secondary string instrument, Course 111; one secondary wind instrument, Course 111.

MUSIC LITERATURE

For candidates who have not received their undergraduate training in music literature at this University a minimum of nine or ten hours of music literature courses in the undergraduate programs is required on the transcript, subject to the approval of this department. Any deficiency must be elected for undergraduate credit.

THEORY

In addition to the major in theory at the undergraduate level as described in this *Announcement*, proficiency in piano or some other field of performance is required at the level of Course 530.

Departmental Curriculums

COMPOSITION

For students who desire to work in the professional field of composition or in the field of college teaching. Students who desire to teach in elementary or secondary schools should elect one of the curriculums in music education.

Precollege Music Preparation. Each student should have an extensive background in piano or other instruments and should have given evidence of a creative capacity.

BACHELOR OF MUSIC

BASIC MUSIC REQUIREMENTS

Composition: four years of private study at the college level

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony; one year of form and analysis; one year of sixteenth-century counterpoint; and two years of orchestration and instrumentation

Applied Music: Piano 218 is required for graduation. A principal instrument must be elected each semester

Music Literature: one-year course in music appreciation and one-year course in the history of music

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year

Physical Education: one year (no credit)

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total minimum semester hours for graduation: 120

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Composition 139	3	Composition 140	3
Theory 100	3	Theory 112	1
Theory 111	1	Theory 140	3
Applied Music	2	Applied Music	2
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	14		14

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
SOPHOMORE			
Composition 239	3	Composition 240	3
Theory 211	1	Theory 212	1
Theory 239	3	Theory 240	3
Applied Music	2	Applied Music	2
Music Literature 239	2	Music Literature 240	2
Electives	4	Electives	4
	15		15
JUNIOR			
Composition 339	4	Composition 340	4
Theory 371	2	Theory 372	2
Theory 451	2	Theory 452	2
Theory 475	2	Theory 476	2
Applied Music	2	Applied Music	2
Electives	4	Electives	4
	16		16
SENIOR			
Composition 439	4	Composition 440	4
Theory 471	2	Theory 472	2
Applied Music	2	Applied Music	2
Electives	7	Electives	7
	15		15

MASTER OF MUSIC

REQUIREMENTS

Major field: fifteen semester hours of composition, orchestration, and electives in theory

Minor field: eight semester hours in applied music

Electives: a minimum of seven hours of electives chosen from areas not represented by the major or minor fields to complete a minimum of thirty semester hours. (Students anticipating work at the doctoral level should consider the election of foreign languages.)

DOCTOR OF MUSICAL ARTS

Students contemplating work beyond the Master of Music degree in composition and possible admission to the doctoral program should consult their advisers for inclusion in their master's program of certain courses customarily covered by the preliminary examination for the doctorate. For details of requirements for the degree Doctor of Musical Arts see the *Announcement* of the Horace H. Rackham School of Graduate Studies under the heading "Music."

HARP

For students who wish to work in the professional harp field in solo and ensemble performance and college or private teaching. Students who wish to teach in elementary and secondary schools should elect the curriculum in general or in instrumental music education.

Precollege Music Preparation. Harp lessons during high school are desirable but not required. The student should complete a minimum of three years of piano study before entering this program as a freshman.

BACHELOR OF MUSIC**BASIC MUSIC REQUIREMENTS**

Harp: four years of study as a harp major at the college level with presentation of a graduation recital

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony; one year of form and analysis; and one year of eighteenth-century counterpoint

Music Literature: one-year course in music appreciation and one-year course in the history of music

Ensemble: elected each semester of residence

Harp Ensemble: three and one-half years

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year

Physical Education: one year

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total semester hours for graduation: 126

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Harp 100	4	Harp 140	4
Piano 205	2	Piano 206	2
Ensemble	1	Ensemble	1
Theory 100	3	Theory 112	1
Theory 111	1	Theory 139	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	16		16

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
SOPHOMORE			
Harp 239	4	Harp 240	4
Piano 207	2	Piano 208	2
Ensemble	1	Ensemble	1
Theory 211	1	Theory 212	1
Theory 239	3	Theory 239	3
Music Literature 239	2	Music Literature 239	2
Nonmusic elective	4	Nonmusic elective	4
	17		17
JUNIOR			
Harp 339	4	Harp 340	4
Ensemble	1	Ensemble	1
Theory 451	2	Theory 452	2
Music elective	4	Music elective	4
Nonmusic elective	4	Nonmusic elective	4
	15		15
SENIOR			
Harp 439	4	Harp 439	4
Ensemble	1	Recital	0
Music electives	6	Ensemble	1
Nonmusic elective	4	Music electives	6
	15	Nonmusic elective	4
			15

MASTER OF MUSIC

REQUIREMENTS

Major: a minimum of fifteen semester hours of graduate harp, including recital, and ensemble courses

Minor: a minimum of eight semester hours in music or nonmusic area

Electives: a minimum of seven hours of electives chosen from areas not represented by the major or minor fields

Total minimum semester hours for graduation: 30

MUSIC EDUCATION

BACHELOR OF MUSIC

Three undergraduate curriculums are offered to enable students to prepare for that field of teaching for which their preparation as performers is most suitable.

GENERAL EDUCATION REQUIREMENTS

Each student must complete a general program of forty semester hours of course work as follows:

a) English Composition: courses 123 and 124 unless excused by the Department of English.

b) The remaining hours are to be distributed among three areas as designated below. At least eight hours must be elected in each area. Not more than eight hours in courses taken to satisfy a major or first minor requirement may be counted toward the general education requirements. In addition, each student is required to elect two semesters of physical education without credit.

Area I. Languages and literatures (ancient and modern); history of art; art and design; applied music, music literature, music theory, philosophy; Great Books; classical archaeology; journalism; speech.

Area II. Astronomy; chemistry, physics; bacteriology; conservation; botany; geology; mathematics; mineralogy; zoology; certain courses in psychology (100 or 190, 110 or 192, 410, 411, 414, 422, 430, 431, 444, 470, 513, 515, 535, 543, 560).

Area III. Anthropology; economics; geography; history; political science; certain courses in psychology (all courses in psychology not included under Area II); sociology.

MAJOR AND MINOR REQUIREMENTS

Each student will complete a major of at least forty semester hours in music performance (voice and instruments, conducting, and ensemble) and a first minor of at least twenty-six semester hours in the history and theory of music. The specific requirements vary somewhat with each curriculum. (The second minor required by the Michigan Certification Code will be counted toward the general requirements.)

PROFESSIONAL EDUCATION REQUIREMENTS

Each student will complete at least twenty semester hours in professional education courses as follows: Education A 301, 325, or 330; Education C 300; and courses in Education D (methodology, materials, and directed teaching) as outlined in their chosen curriculums.

ACCEPTANCE AS A MAJOR IN MUSIC EDUCATION

All students must make formal application for acceptance as a major in music education and for admission to student teaching at the end of the first semester of the third year. Transfer students must do so at first registration. The requirements are as follows:

a) *Completion of all curriculum requirements specified for the first five semesters with an average grade of C (2.00).*

b) *Passing the departmental examination in sight singing and sight playing. Students in all curriculums will be expected to show proficiency in singing at sight vocal materials such as are in general use in music classes in elementary*

and secondary schools. Students in the choral and general curriculums will be expected to play at sight the piano accompaniments such as are used in elementary and secondary schools, voice parts in vocal scores such as are sung by high school choirs, and piano music commonly used for rhythmic activities in schools; the examination will also include demonstrations of the ability to improvise simple accompaniments to school songs and to transpose them into higher and lower keys. Students in the instrumental curriculum must demonstrate the ability to play at sight simple piano accompaniments.

c) *Approval of achievement and potential qualifications for teaching by the music education faculty.* These qualifications include poise, personality, character, interest in children, interest in professional study, and skill in group teaching.

d) *Proficiency in piano playing as specified for each curriculum.* If the student does not demonstrate at the time of admission the level of proficiency in piano required for graduation in his chosen curriculum, piano must be elected continuously until the required proficiency is attained.

No course in directed teaching may be elected until the requirements in *a*, *b*, and *c* above have been completed.

TEACHER'S CERTIFICATE

In general, meeting the requirements outlined below for the Bachelor of Music degree will also qualify the student for a Michigan certificate to teach music in both elementary and secondary schools and to teach one other subject in secondary schools. It is possible, however, to meet the minimum degree requirements without meeting all certification requirements. Some students may find it necessary to attend one or more summer sessions in order to complete requirements for both the degree and the certificate. It is the responsibility of each student to investigate and to complete the requirements for certification in the state in which he expects to teach (requirements in some other states vary appreciably from those in Michigan).

I. Choral Music Education

For students desiring to teach vocal, choral, and applied music in the public or parochial schools and junior and senior colleges.

Precollege Music Preparation. Four or five years of piano resulting in the achievement of functional skills as outlined for Piano 111, 112, 113, 114. Voice lessons during high school are not required, but participation in choral groups is recommended.

BASIC MUSIC REQUIREMENTS

Principal Instrument: piano or voice (or other applied music subject with the adviser's approval) must be elected each semester of residence; for graduation each student must complete either (a) Piano 222 and Voice 424, or (b) Piano 220 and Voice 426. (These requirements imply the election of four years of voice and three years of piano or vice versa.)

Conducting: one year

Other instruments: one year of orchestral instruments including strings, winds, and percussion

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony and one semester of form and analysis

Music Literature: one-year course in music appreciation and one-year course in the history of music

Choral Ensemble: elected each semester of residence

Music Education: fundamentals of vocal music for elementary and secondary schools; school vocal music materials and techniques; directed teaching of vocal music in elementary, intermediate, junior high, and senior high schools; and professional problems in music education

BASIC NONMUSIC REQUIREMENTS

Minimum of 30-37 hours

English: one year

Physical Education: one year (no credit)

Psychology: one semester

Education: educational psychology and one course elected from the following: history of education, philosophy of education, educational sociology

General Education: 15-22 semester hours (including second minor)

ELECTIVES

Music and nonmusic courses to complete graduation and teacher's certificate requirements

Total minimum semester hours for graduation: 128

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Piano 205	2	Piano 206	2
Voice 219	2	Voice 220	2
Ensemble 349	1	Ensemble 349	1
Theory 100	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Nonmusic elective	4	Nonmusic elective	4
Physical Education	0	Physical Education	0
	17		17
SOPHOMORE			
Piano 207	2	Piano 208	2
Voice 221	2	Voice 222	2
Strings or Winds	2	Ensemble 349	1
Ensemble 349	1	Conducting 301	2
Conducting 300	2	Theory 112	1
Theory 111	1	Theory 240	3
Theory 239	3	Education D340	3
Nonmusic elective	4	Nonmusic elective	4
	17		18

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
JUNIOR			
Piano 219	2	Piano 220	2
Voice 423	2	Voice 424	2
Ensemble 349	1	Strings or Winds	2
Theory 211	1	Ensemble 349	1
Theory 451	2	Theory 212	1
Music Literature 239	2	Music Literature 240	2
Education D341	3	Education C300	3
Psychology 101	4	Education D342	3
		Nonmusic elective	2
	17		18
SENIOR			
Piano 221 or Voice 425	4	Piano 222 or Voice 426	4
Ensemble 349	1	Ensemble 349	1
Education A301 or A325 or A330	2	Education D344	2
Education D345	2	Education D347	2
Education D346	2	Education D348	2
Nonmusic elective	3	Nonmusic elective	3
	14		14

II. General Music Education

For students desiring to teach both vocal and instrumental music in public or parochial schools and junior and senior colleges. Completion of this curriculum requires attending one summer session.

Precollege Music Preparation. At least two years of piano resulting in the achievement of functional skills as outlined for Piano 111, 112, 113, and 114; two to three years' study of an orchestral or band instrument; and participation in band, orchestra, and choral groups.

BASIC MUSIC REQUIREMENTS

String, Wind, or Percussion Instrument: completion of Course 222 is required for graduation

Secondary Instruments: if the above instrument is wind or percussion, eight semester hours are to be elected from the following: Violin 111, 112; Clarinet 111; Cornet 111; electives. If it is a stringed instrument, eight semester hours are to be elected from the following: Violin 111, 112; Cello 111; Cornet 111; Clarinet 111; electives

Piano: completion of Course 208 is required for graduation

Voice: completion of Course 222

Conducting 300, 301

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony and a one-semester course in form and analysis

Music Literature: one-year course in music appreciation and one-year course in the history of music

Ensemble: choir, orchestra, or band elected each semester of residence; a minimum of 2 semesters of band or orchestra and 2 semesters of choir is required for graduation

Music Education: fundamentals of vocal music for elementary and secondary schools; directed teaching of vocal music in the elementary and junior or senior high schools; school vocal music materials and techniques; directed teaching of instrumental music in the elementary and secondary schools; fundamentals of teaching instrumental music; and materials for instrumental organizations

BASIC NONMUSIC REQUIREMENTS

Minimum of 30-37 semester hours

English: one year

Physical Education: one year

Psychology: one semester

Education: educational psychology and one course elected from the following:
history of education, philosophy of education, educational sociology

General Education: 15-22 semester hours (including second minor)

ELECTIVES

Music and nonmusic courses to complete graduation and teacher's certificate requirements

Total minimum hours required for graduation: 136

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Instrument 100	2	Instrument 220	2
Piano 205	2	Piano 206	2
Voice 219	2	Voice 220	2
Ensemble 345, 347, or 349	1	Ensemble 345, 347, or 349	1
Theory 100	3	Theory 140	3
English 123	3	English 124	3
Nonmusic elective	4	Nonmusic elective	4
Physical Education	0	Physical Education	0
	17		17
SOPHOMORE			
Instrument 221	2	Instrument 222	2
Piano 207	2	Piano 208	2
Voice 221	2	Voice 222	2
Ensemble 345, 347, or 349	1	Ensemble 345, 347, or 349	1
Conducting 300	2	Conducting 301	2
Theory 239	3	Theory 240	3
Music Literature 139	2	Music Literature 140	2
Nonmusic elective	4	Education D340	3
	18		17

The extra summer semester usually necessary to complete this curriculum should be planned at the end of either the sophomore or junior years. It is recommended that the summer work be taken in the University Division of the National Music Camp at Interlochen, Michigan.

	<i>Credit Hours</i>		
SUMMER SEMESTER			
Ensemble 345, 347, or 349	1		
Theory 451	2		
Music Literature 239 or 240	2		
Education D379	2		
	7		
<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
JUNIOR			
Principal Instrument	2	Principal Instrument	2
Secondary Instrument	2	Secondary Instrument	2
Secondary Instrument	2	Secondary Instrument	2
Ensemble 345, 347 or 349	1	Ensemble 345, 347 or 349	1
Theory 111	1	Theory 112	1
Education D341	3	Education D342	3
Education D370	2	Education D372	2
Nonmusic elective	4	Psychology 101	4
	17		17
SENIOR			
Principal Instrument	2	Principal Instrument	2
Ensemble 345, 347 or 349	1	Ensemble 345, 347 or 349	1
Theory 211	1	Theory 212	1
Education C300	3	Music Literature 239 or 240	2
Education D346	2	Education A301, A325, or A330	2
Education D347	2	Education D375	2
Nonmusic elective	4	Education D377	2
	15	Nonmusic elective	3
			15

III. Instrumental Music Education

For students desiring to teach band and orchestral music in public or parochial schools and junior and senior colleges.

Precollege Music Preparation. Each student should have an extensive background in at least one band or orchestra instrument including private lessons

on the instrument and playing experience in orchestras and bands. The study of other instruments, including piano, is desirable but not required.

BASIC MUSIC REQUIREMENTS

Principal Band or Orchestra Instrument: elected each semester. Completion of Course 426 is required for graduation.

Secondary Instruments: see chart, page 32.

Piano: one year (Courses 111 and 112)

Voice: one year

Conducting: one year

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony; one semester of form and analysis; and an elective in advanced theory

Music Literature: one-year course in music appreciation and one-year course in the history of music

Ensemble: band or orchestra elected each semester of residence

Music Education: fundamentals of teaching instrumental music; instrumental methods for elementary and secondary schools; materials for instrumental organizations; directed teaching of instrumental music in elementary and secondary schools; and general music methods

BASIC NONMUSIC REQUIREMENTS

Minimum of 30-37 semester hours

English: one year

Physical Education: one year

Psychology: one semester

Education: educational psychology and one course elected from the following: history of education, philosophy of education, educational sociology

General Education: 15-22 semester hours (including second minor)

ELECTIVES

Music and nonmusic courses to complete graduation and teacher's certificate requirements

Total minimum semester hours for graduation: 128

USUAL PROGRAM OF ELECTIONS

NOTE.—The requirements and sequence of elections in secondary instruments and voice will vary depending upon the student's principal instrument. See chart for specific requirements. With the adviser's approval, additional secondary instruments may be elected during the fourth year in lieu of the principal instrument.

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Principal Instrument 100	2	Principal Instrument 220	2
Piano 111	2	Piano 112	2
Secondary Instrument	2	Secondary Instrument	2
Ensemble 345 or 347	1	Ensemble 345 or 347	1
Theory 100	3	Theory 140	3
English 123	3	English 124	3
Nonmusic elective	4	Nonmusic elective	4
Physical Education	0	Physical Education	0
	17		17
SOPHOMORE			
Principal Instrument 221	2	Principal Instrument 222	2
Voice 219	2	Voice 220	2
Secondary Instrument	2	Secondary Instrument	2
Ensemble 345 or 347	1	Ensemble 345 or 347	1
Theory 111	1	Theory 112	1
Theory 239	3	Theory 240	3
Music Literature 139	2	Music Literature 140	2
Nonmusic elective	4	Nonmusic elective	4
	17		17
JUNIOR			
Principal Instrument 423	2	Principal Instrument 424	2
Secondary Instrument	2	Secondary Instrument	2
Secondary Instrument	2	Secondary Instrument	2
Ensemble 345 or 347	1	Ensemble 345 or 347	1
Conducting 300	2	Conducting 301	2
Theory 211	1	Theory 212	1
Music Literature 239	2	Music Literature 240	2
Education D349 or D370	2	Education D349 or D370	2
Psychology 101	4	Education D372	2
	18		16
SENIOR			
Principal Instrument 425	2	Principal Instrument 426	2
Ensemble 345 or 347	1	Ensemble 345 or 347	1
Theory 451	2	Theory elective	2
Education C300	3	Education A301, A325, or A330	2
Education D373	2	Education D376	2
Education D375	2	Education D378	2
Education D377	2	Education D380	2
Nonmusic elective	3	Nonmusic elective	3
	17		16

MASTER OF MUSIC

The Master of Music degree is offered with three possible fields of specialization in music education: choral, general, and instrumental. Courses elected in applied

music, ensemble, and methods will vary depending upon the major chosen. The proficiency requirements for admission to each of these majors are stated elsewhere (see page 18).

All candidates for the Master of Music degree are encouraged to satisfy some of the requirements in music education, applied music, and ensemble by attending one summer session at the University of Michigan Division of the National Music Camp, Interlochen, Michigan.

Terminal Program

The terminal program is planned to meet the needs of teachers of music in elementary and secondary schools who desire the greatest possible flexibility in course elections and who do not plan to continue their studies beyond the level of the master's degree.

REQUIREMENTS IN THE MAJOR FIELD (music education and education) ..15 hours

Music Education 500 (Intro. to Grad. Study) 2 hours

Music Education 501 (Hist. and Philos.) 2 hours

Graduate course in music education methods and materials in the area of the individual's major emphasis, instrumental or vocal 2 hours

Students qualifying for admission who do *not* have credit for Mus. Ed. (Choral) 340 and 341 or equivalent must elect Mus. Ed. 544 and 545 (4 hours). Students qualifying for admission who do *not* have credit for Mus. Ed. (Instrumental) 370, 372, 373 or equivalent must, after consultation with their advisers, elect Mus. Ed. 572 and one other course in instrumental methods.

In consultation with his adviser a student should elect sufficient additional courses in music education or education to complete the total required.

**CHART OF SECONDARY INSTRUMENT REQUIREMENTS IN
INSTRUMENTAL MUSIC EDUCATION**

Students who pass any of these courses by proficiency examination may elect additional hours in applied music or, with the adviser's approval, in other subjects.

Principal Instrument	Semester					
	1	2	3	4	5	6
Bassoon	Pf 111, Vl 111	Pf 112, Vl 112	Vc 111, Cor 111	Cl 111, Tro or Fr hn 111	Fl 111, Voi 219	Perc 111, Voi 220
Clarinet	Pf 111, Vl 111	Pf 112, Vl 112	Vc 111, Cor 111	Perc 111, Tro or Fr hn 111	Fl 111, Voi 219	Ob or Bn 111, Voi 220
Double Bass	Pf 111, Cl 111	Pf 112, Fl 111	Vl 111, Ob or Bs 111	Vl 112 Perc 111	Vc 111, Voi 219	Cor 111, Voi 220
Euphonium	Pf 111, Vl 111	Pf 112, Vl 112	Cl 111, Perc 111	Vc 111, Ob or Bn 111	Voi 219, Tro or Fr hn 111	Voi 220, Fl 111
Flute	Pf 111, Vl 111	Pf 112, Vl 112	Vc 111, Cor 111	Cl 111, Tro or Fr hn 111	Ob or Bn 111, Voi 219	Perc 111, Voi 220
French Horn	Pf 111, Vl 111	Pf 112, Vl 112	Cl 111, Perc 111	Vc 111, Fl 111	Cor 111, Voi 219	Ob or Bn 111, Voi 220
Oboe	Pf 111, Vl 111	Pf 112, Vl 112	Vc 111, Cor 111	Cl 111, Tro or Fr hn 111	Fl 111, Voi 219	Perc 111, Voi 220
Percussion or Harp	Pf 111, Vl 111	Pf 112, Vl 112	Vc 111, Cl 111	Cor 111, Fl 111	Voi 219, Tro or Fr hn 111	Voi 220, Ob or Bn 111
Saxophone	Pf 111, Vl 111	Pf 112, Vl 112	Vc 111, Cor 111	Cl 111, Tro or Fr hn 111	Ob or Bn 111, Voi 219	Perc 111, Voi 220
Trombone	Pf 111, Vl 111	Pf 112, Vl 112	Cl 111, Perc 111	Vc 111, Ob or Bn 111	Fl 111, Voi 219	Cor 111, Voi 220
Trumpet	Pf 111, Vl 111	Pf 112, Vl 112	Cl 111, Perc 111	Vc 111, Ob or Bn 111	Voi 219, Tro or Fr hn 111	Voi 220, Fl 111
Tuba	Pf 111, Vl 111	Pf 112, Vl 112	Cl 111, Perc 111	Vc 111, Fl 111	Cor 111, Voi 219	Ob or Bn 111, Voi 220
Viola	Pf 111, Cl 111	Pf 112, Fl 111	Vc 111, Ob or Bn 111	Vc 112, Perc 111	Db 111, Voi 219	Cor 111, Voi 220
Violin	Pf 111, Cl 111	Pf 112, Fl 111	Vc 111, Ob or Bn 111	Vc 112, Perc 111	Db 111, Voi 219	Cor 111, Voi 220
Violoncello	Pf 111, Cl 111	Pf 112, Fl 111	Vl 111, Ob or Bn 111	Vl 112, Perc 111	Db 111, Voi 219	Cor 111, Voi 220

COMPREHENSIVE EXAMINATION

A thesis or a recital may be submitted for the comprehensive examination only with the adviser's approval. In addition, approval for giving a recital must be secured from the appropriate department of applied music, and the recital program must be approved by the full faculty jury. Proficiency required is Course 532.

REQUIREMENTS IN APPLIED MUSIC AND ENSEMBLE (minor field) 8-12 hours

Each student must complete a minimum of four hours on his principal instrument at course levels beyond those required for admission. A maximum of four hours on other instruments at course levels below 400 may be elected for graduate credit provided the course is not *required* for admission to the curriculum (choral, general, or instrumental) in which he is enrolled. An ensemble appropriate to the student's curriculum must be elected each semester of residence (*choral*: 349; *general*: 345 or 347; *instrumental*: 345 or 347). No more than four hours of credit in ensemble may be included in the total of thirty hours required for the degree. Additional hours in ensemble will be recorded as extra credit.

ELECTIVES 3-7 hours

A student may complete the required total of thirty hours for the degree by electing courses in any field other than the major or minor fields for which he has the requisite undergraduate preparation.

Total 30 hours

Predoctoral Program

The predoctoral program is planned for those students whose goal is a doctoral degree. The emphasis in this program is on attaining the high levels of practical and theoretical musicianship and the scholarly abilities essential for entering upon doctoral studies.

REQUIREMENTS IN THE MAJOR FIELD (music education and education) ... 16 hours

Music Education 500 (Intro. to Grad. Study)	2 hours
Music Education 501 (Hist. and Philos.)	2 hours
Music Education 503 (Supervis. and Admin.)	2 hours
Music Education Methods and Materials	6 hours

Students qualifying for admission who do *not* have credit for Mus. Ed. (Choral) 340 and 341 or equivalent must elect Mus. Ed. 544 and 545 (4 hours). Students qualifying for admission who do *not* have credit for Mus. Ed. (Instrumental) 370, 372, 373 or equivalent must, after consultation with their advisers, elect Mus. Ed. 572 and one other course in instrumental methods.

Music Education 502 (Thesis)	2 hours
Education C550 (Statistics)	2 hours

REQUIREMENTS IN APPLIED MUSIC AND ENSEMBLE (minor field) 4-8 hours

Each student must complete a minimum of four hours on his principal instrument at course levels beyond those required for admission. An ensemble appropriate to the student's curriculum must be elected each semester of residence (*choral*: 349; *general*: 345 or 347 or 349; *instrumental*: 345 or 347). No more than four hours of credit in ensemble may be included in the total of thirty hours required for the degree. Additional hours in ensemble will be recorded as extra credit.

OTHER REQUIREMENTS 8 hours

Conducting 455 or 475 or 477 2 hours

Music Literature elective 2 hours

Theory 473 2 hours

Theory 475 2 hours

If some of the requirements listed above are already satisfied, the student, with the approval of the department, may substitute other graduate courses, possibly including some of those required in the basic curriculum for the doctor's degree (Ph.D. or Ed.D.).

DOCTORAL PROGRAMS

For information regarding programs leading to the degrees Doctor of Philosophy and Doctor of Education consult the *Announcement* of the Horace H. Rackham School of Graduate Studies.

MUSIC LITERATURE AND HISTORY

For students who wish to teach music literature in a collegiate institution; to work in certain fields of radio, television, journalism, or library science; or who may later pursue work at the doctoral level. For work in the field of elementary and secondary school music the student should elect one of the curriculums in music education.

Precollege Music Preparation. The student should have an extensive background in piano, voice, or other instruments.

BACHELOR OF MUSIC

BASIC MUSIC REQUIREMENTS

Music Literature: one-year course in the introduction to music literature; one-year course in history of music; and advanced one-semester courses in symphonic literature, opera, and music of the seventeenth, eighteenth, nineteenth, and twentieth centuries

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony, one semester of form and analysis, and one semester of counterpoint

Applied Music: principal instrument or voice elected each semester. It is strongly recommended that the student have sufficient precollege background in this instrument to enable him to complete Course 426 before graduation. The completion of at least Piano 114 is required of each student.

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year; German, one year; French, one year

History 101, 102; History of Art 102

Physical Education: one year

ELECTIVES

Music and nonmusic courses to complete graduation requirements. Courses in general history, fine arts, and languages are strongly advised.

Total minimum semester hours for graduation: 120

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Applied Music	4	Applied Music	4
Theory 111	1	Theory 112	1
Theory 139	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
History 101	4	History 102	4
Physical Education	0	Physical Education	0
	17		17
SOPHOMORE			
Applied Music	4	Applied Music	4
Theory 211	1	Theory 212	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
Foreign Language*	4	Foreign Language*	4
Elective	2	Elective	2
	16		16
JUNIOR			
Applied Music	4	Applied Music	4
Theory 451	2	Music Literature 421	3
Music Literature 411	2	Foreign Language*	4
Music Literature 420	3	Electives	4
Foreign Language*	4		15
	15		
SENIOR			
Applied Music	4	Applied Music	4
Theory 473 or 475	2	Music Literature 423	3
Music Literature 413	3	History of Art 102	4
Music Literature 422	3	Electives	4
Electives	3		15
	15		

* For those who have not had the equivalent of one year of French or German.

MASTER OF MUSIC

REQUIREMENTS

Major field: Music Literature 477, 478, 503, 509, 510, 555, 556, including the completion of a thesis (no recital in lieu of thesis is permitted). Undergraduate requirements in music theory, piano, languages, history, and the history of art must be met by students transferring to this department for graduate work. Students may be required to elect additional music literature courses other than those listed for graduate study to make up deficiencies.

Minor: eight hours of credit in another music or nonmusic field (applied music is recommended)

Electives: to complete minimum of thirty semester hours

DOCTORAL PROGRAMS

Students contemplating work beyond the M.Mus. degree and possible admission to the doctoral program in musicology should consult their advisers concerning the inclusion in their master's program of certain courses customarily covered in the preliminary examinations for the doctorate. For details of requirements for the degree Doctor of Philosophy with a major in music see the *Announcement* of the Horace H. Rackham School of Graduate Studies.

MUSICOLOGY

The University offers the degrees Master of Arts and Doctor of Philosophy in music with majors in musicology. The degree programs are described in the *Announcement* of the Horace H. Rackham School of Graduate Studies.

MUSIC PERFORMANCE

Doctoral programs in music performance are offered through the Horace H. Rackham School of Graduate Studies and are described in the *Graduate School Announcement*.

ORGAN AND CHURCH MUSIC

For students who wish to work in the professional field of college organ teaching or church music. Students desiring to teach in elementary and secondary schools should elect a curriculum in music education.

Precollege Music Preparation. Organ lessons during high school are not required but the student should complete approximately eight years of piano study before entering this program as a freshman.

BACHELOR OF MUSIC

BASIC MUSIC REQUIREMENTS

Organ: four years of study as an organ major at the college level with presentation of a graduation recital (memorized)

Piano: to be taken as required by the department

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and elementary keyboard harmony, one year of form and analysis, one year of advanced keyboard harmony, and one year of counterpoint

Music Literature: one-year course in music appreciation and one-year course in the history of music

Organ and Church Music Literature: courses in the design and construction of the organ; church music, liturgies, hymnology, and improvisation

Voice: one year at the college level

Choral Conducting: one year

Choral Ensemble: elected for a minimum of one year

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year

Physical Education: one year

Language: one year of German and one year of French

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total minimum semester hours for graduation: 120

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Organ 139	4	Organ 140	4
Theory 111	1	Theory 112	1
Theory 139	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
Organ Literature 283	2	Music elective	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	15		15

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
SOPHOMORE			
Organ 239	4	Organ 240	4
Voice 219	2	Voice 220	2
Ensemble 349	1	Ensemble 349	1
Theory 211	1	Theory 212	1
Theory 239	3	Theory 240	3
Foreign Language	4	Foreign Language	4
	15		15
JUNIOR			
Organ 339	4	Organ 340	4
Theory 411	2	Theory 412	2
Theory 451	2	Theory 452	2
Organ Literature 483	2	Organ Literature 484	2
Conducting 300	2	Conducting 301	2
Foreign Language	4	Foreign Language	4
	16		16
SENIOR			
Organ 439	4	Organ 440	4
Organ Literature 481	2	Recital	0
Theory 473	2	Organ Literature 485	2
Electives	6-8	Theory 474	2
	14-16	Electives	6-8
			14-16

MASTER OF MUSIC

REQUIREMENTS (PROGRAM I) CONCENTRATION IN PERFORMANCE

Major: fifteen semester hours of credit in organ including Organ 539, 540, and a recital and courses in organ literature

Minor: eight semester hours in music or nonmusic subject. Theory is recommended.

Electives: to complete minimum of thirty semester hours (students anticipating work at the doctoral level should consider the election of foreign languages)

REQUIREMENTS (PROGRAM II) CONCENTRATION IN CHURCH MUSIC

Major: sixteen semester hours of the following:

a) (required). Organ Literature (Church Music and Liturgies) 483, 484; Organ Literature (Church Service Playing) 485; Organ Literature (Organ Design) 283; Music Education (Choral Repertory) 543; Conducting 475, 476; Ensemble 349.

b) (optional, to complete required number of hours). Music Literature 477, 478; History of Art (permission of adviser).

Minor: eight semester hours of organ including a public recital. Prerequisite: Organ 340 or 530.

Electives: to complete a minimum of thirty semester hours; at least six hours to be chosen from courses outside the major and minor fields

DOCTOR OF MUSICAL ARTS

Students contemplating work beyond the M.Mus. degree and possible admission to the doctoral program in organ should consult their advisers for inclusion in their master's program of certain courses customarily covered in the preliminary examinations for the doctorate. For details of requirements for the degree Doctor of Musical Arts see the *Announcement* of the Horace H. Rackham School of Graduate Studies under the heading "Music."

PIANO

For students who wish to work in the professional piano field in solo and ensemble performance, accompanying, and college or private teaching. Pianists who wish to teach in elementary and secondary schools should elect the curriculum in choral music education.

Precollege Music Preparation. Eight to twelve years of piano study, repertory to include literature by representative composers of the Baroque, Classical, Romantic, and our contemporary periods. *All new students* majoring in piano are auditioned by the piano faculty during the first registration period and should be prepared to perform a composition of J. S. Bach and a sonata of Haydn, Mozart, or Beethoven. Memorization is expected.

BACHELOR OF MUSIC**BASIC MUSIC REQUIREMENTS**

Piano: four years of study as a piano major at the college level, with presentation of a graduation recital

Voice: two semesters

Conducting: one semester

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony; one year of form and analysis; and one year of eighteenth-century counterpoint

Music Literature: one-year course in music appreciation, one-year course in the history of music, and elective

Piano Literature: a minimum of two years of courses, repertory, and pedagogy

Ensemble: a minimum of two years (accompanying)

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year

French, German, or Italian: two semesters

Physical Education: one year

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total semester hours for graduation: 123

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Piano 139	4	Piano 140	4
Voice 219	2	Voice 220	2
Theory 111	1	Theory 112	1
Theory 139	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	15		15
SOPHOMORE			
Piano 239	4	Piano 240	4
Conducting 300	2	Theory 212	1
Theory 211	1	Theory 240	3
Theory 239	3	Music Literature 240	2
Music Literature 239	2	French, German, or Italian	4
French, German, or Italian	4		14
	16		
JUNIOR			
Piano 339	4	Piano 340	4
Piano Literature 487	2	Piano Literature 488	2
Ensemble 481	2	Ensemble 481	2
Theory 451	2	Theory 371	2
Music Literature (a period course)	3	Theory 452	2
Nonmusic elective	4	Nonmusic elective	4
	17		16
SENIOR			
Piano 439	4	Piano 440	4
Piano Literature 386	3	Recital	0
Ensemble 481	2	Piano Literature 385	3
Theory 473	2	Ensemble 481	2
Nonmusic elective	4	Theory 474	2
	15	Nonmusic elective	4
			15

MASTER OF MUSIC

REQUIREMENTS

Major: a minimum of sixteen semester hours of graduate piano courses, including departmental literature, ensemble, and recital

Minor: a minimum of eight semester hours in composition, music literature, musicology, theory, or a combination of these

Electives: a minimum of six hours of cognate study (nonmusic).

Total minimum semester hours for graduation: 30

DOCTOR OF MUSICAL ARTS

Students contemplating work beyond the M.Mus. degree and possible admission to the doctoral program in piano should consult their advisers as to inclusion of certain courses in their master's program which ordinarily would be covered in the preliminary examinations for the doctorate. For details of requirements for the degree Doctor of Musical Arts see the *Announcement* of the Horace H. Rackham School of Graduate Studies under the heading "Music."

STRINGS

For students who wish to work in the professional string field, including concert performances, orchestra playing, chamber music, and college teaching. (Students desiring to teach strings in the public schools should elect either the string instrument curriculum with teacher's certificate or that in instrumental music education.)

Precollege Music Preparation. The student should have several years of study on the major instrument (violin, viola, cello, double bass) and should give evidence of seriousness of purpose. Experience in orchestral and chamber music performance is desirable. In addition, since all students in the string department must demonstrate piano proficiency before graduation, the pre-college study of piano is urged.

BACHELOR OF MUSIC**BASIC MUSIC REQUIREMENTS**

Major instrument: four years' study of violin, viola, cello, or double bass at the college level, with a graduation recital

Piano: completion of Course 114

Ensemble: election of orchestra for a minimum of four years and two semesters of string quartet

Music Literature: one-year course in music appreciation and one-year course in music history; one-semester courses in symphonic literature, the symphonic tone poem, and eighteenth-century music

Theory: two years of basic musicianship (harmony, sight singing, keyboard harmony, ear training, and melodic, harmonic, and contrapuntal dictation), one year of form and analysis, and one year of eighteenth-century counterpoint

Viola: one year (violin majors only)

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year

Physical Education: one year

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total semester hours for graduation: 125

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Major Instrument 139	4	Major Instrument 140	4
Piano 111	2	Piano 112	2
Ensemble 345	1	Ensemble 345	1
Theory 139	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	15		15
SOPHOMORE			
Major Instrument 239	4	Major Instrument 240	4
Piano 113	2	Piano 114	2
Ensemble 345	1	Ensemble 345	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
Theory 111	1	Theory 112	1
Nonmusic elective	4	Nonmusic elective	4
	17		17
JUNIOR			
Major Instrument 339	4	Major Instrument 340	4
Piano 115	2	Ensemble 345	1
Ensemble 345	1	Secondary Instrument	2
Secondary Instrument 100	2	Ensemble 335	2
Ensemble 335	2	Music Literature 412	2
Theory 451	2	Theory 452	2
Nonmusic elective	4	Nonmusic elective	4
	17		17
SENIOR			
Major Instrument 439	4	Major Instrument 440	4
Ensemble 345	1	Recital	0
Theory 473	2	Ensemble 345	1
Music Literature 411	2	Theory 474	2
Music Literature 421	3	Nonmusic elective	4
Nonmusic elective	4		
	16		11

STRING INSTRUMENT CURRICULUM

Designed for students who are interested in acquiring a knowledge of each of the string instruments. This curriculum or the instrumental music education curriculum is for the student who desires to teach strings in the elementary and secondary schools. Because of the additional work necessary to complete the teacher's certificate, this program requires at least two summer sessions in addition to the regular eight semesters.

BASIC MUSIC REQUIREMENTS

Principal String Instrument: violin, viola, cello, or double bass, elected each year, to complete Course 530

Secondary String Instruments: in addition to the principle instrument, a second string instrument is elected for four semesters, and the other two string instruments elected for two semesters each

Other Secondary Instruments: one semester each of cornet, clarinet, and percussion

Piano: completion of Course 114

Music Literature: one-year course in music appreciation, one-year course in the history of music, and a one-semester elective

Conducting: two semesters

Theory: two years of basic musicianship (harmony, sight singing, ear training, keyboard harmony, and melodic, harmonic, and contrapuntal dictation), one semester of orchestration and instrumentation, and a one-semester elective in theory

Ensemble: orchestra to be elected for a minimum of eight credit hours; string quartet to be elected for one semester

Music Education: fundamentals of teaching string and band instruments, directed teaching of instrumental music in the elementary and secondary schools, and the administration of instrumental music, and materials for instrumental organizations

BASIC NONMUSIC REQUIREMENTS

Minimum of 30-37 semester hours

English: one year

Physical Education: one year

Psychology: one semester of elementary psychology

Education: education psychology and one course elected from the following:
history of education, philosophy of education, or educational sociology

General Education: 15-22 semester hours (including second minor); for details see description of general education requirements for majors in music education

ELECTIVES

To complete graduation and teaching certificate requirements
Total semester hours required for graduation: 146

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Principal Instrument 139	4	Principal Instrument 140	4
Piano 111	2	Piano 112	2
Ensemble 345	1	Ensemble 345	1
Theory 139	3	Theory 240	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	15		15

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
SOPHOMORE			
Principal Instrument 239	4	Principal Instrument 240	4
Piano 113	2	Piano 114	2
Ensemble 345	1	Ensemble 345	1
Theory 111	1	Theory 112	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
Psychology 101	4	Nonmusic elective	4-5
	17		17-18
SUMMER			
Education C300	3		
Clarinet 111	2		
Secondary String Instrument 100	2		
Theory elective	2		
	9		
JUNIOR			
Principal Instrument 527	2	Principal Instrument 528	2
Minor Instrument	2	Minor Instrument	2
Secondary String Instrument	2	Secondary String Instrument	2
Piano 115	2	Cornet 111	2
Ensemble 345	1	Ensemble 335	2
Conducting 300	2	Conducting 301	2
Music Literature elective	2	Ensemble 345	1
Nonmusic electives	4-6	Nonmusic electives	4-6
	17-19		17-19
SUMMER			
Percussion 111	2		
Secondary String Instrument 100	2		
Education A301, A325, or A330	2		
Theory elective	2		
	8		
SENIOR			
Principal Instrument 529	2	Principal Instrument 530	2
Minor Instrument	2	Recital	0
Ensemble 345	1	Minor Instrument	2
Education D370	2	Ensemble 345	1
Education D373	2	Education D372	2
Education D375	2	Education D377	2
Education D376	2	Education D378	2
	13	Education D379	2
			13

MASTER OF MUSIC

Terminal Program

REQUIREMENTS

Principal Instrument (violin, viola, cello, or double bass): completion of Courses 539 and 540 with a minimum of eight semester hours; degree recital

Ensemble: two semesters each of 345 and 535

String Literature: 541, and 542 or 543

Minor field: eight semester hours in a specific field

Electives: to complete a minimum total of 30 hours

Predoctoral Program

Principal Instrument (violin, viola, or cello): completion of Courses 539 and 540 with a minimum of eight semester hours; degree recital

Ensemble: two semesters each of 345 and 535

String Literature: 541, and 542 or 543

Musicology: 501

Electives: to complete a minimum total of 30 hours

DOCTOR OF MUSICAL ARTS

Students intending to pursue doctoral study in performance are advised to use their elective hours in the M.Mus. degree program to prepare themselves in languages and in historical and theoretical studies which they will encounter in the doctoral program. For details, students should consult their advisers and should refer to the *Announcement* of the Horace H. Rackham School of Graduate Studies under the heading "Music."

THEORY

For students who wish to teach theory in a four-year college or for students desiring later to pursue work at the doctoral level. Students who desire to teach in elementary or secondary schools should elect one of the curriculums in music education.

Precollege Music Preparation. Each student is encouraged to have as extensive a background in piano as possible. It is further advisable for students in this field to have precollege work in basic musicianship or theory along with the piano study. Work in other applied music areas—voice and instruments—is also encouraged.

BACHELOR OF MUSIC

Plan A

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Principal Instrument	4	Principal Instrument	4
Piano	2	Piano	2
Theory 100	3	Theory 112	1
Theory 111	1	Theory 139	3
Music Literature 139	2	Music Literature 139	2
English 123	3	English 124	3
Ensemble	1	Ensemble	1
Physical Education	0	Physical Education	0
	16		16
SOPHOMORE			
Principal Instrument	4	Principal Instrument	4
Piano	2	Piano	2
Theory 211	1	Theory 212	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
History 313	3	History 314	3
Ensemble	1	Ensemble	1
	16		16
JUNIOR			
Principal Instrument	4	Principal Instrument	4
Theory 371	2	Theory 372	2
Theory 451	2	Theory 452	2
Theory 473	2	Theory 474	2
Music Literature elective	3	Nonmusic elective	4
Foreign Language	4	Foreign Language	4
	17		18
SENIOR			
Principal Instrument	4	Principal Instrument	4
Theory 411	2	Theory 412	2
Theory 475	2	Theory 476	2
Composition 421	3	Composition 422	3
Nonmusic elective	4	Nonmusic elective	4
	15		15

Principal Instrument or voice: elected each semester; it is necessary to have precollege training in this instrument so as to complete Course 530 before graduation

Piano: completion of Course 218 if piano is not the principal instrument

Plan B

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Piano	2	Piano	2
Theory 100	3	Theory 112	1
Theory 111	1	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
History of Art 101	4	History of Art 102 or an approved nonmusic elective	4
Physical Education	0	Physical Education	0
	15		15
SOPHOMORE			
Piano	4	Piano	4
Theory 211	1	Theory 212	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
Conducting 300	2	Conducting 301 or approved elective	2
English 231	3	English 232 or an approved nonmusic elective	3
Ensemble	1	Ensemble	1
	16		16
JUNIOR			
Piano	2	Piano	2
Theory 371	2	Theory 372	2
Theory 411	2	Theory 412	2
Theory 451	2	Theory 452	2
Theory 473	2	Theory 474	2
Music Literature 460 or Music Literature elective	3	Music Literature 461 or Music Literature elective	3
History 313 or 351	3	History 314, 352, or approved nonmusic elective	3
Ensemble	1	Ensemble	1
	17		17
SENIOR			
Piano	2	Piano	2
Theory 475	2	Theory 476	2
Theory elective	2	Theory elective	2
Composition 421	3	Composition 422	3
French or German 101	4	French or German 102	4
Philosophy 439 or approved nonmusic elective	3	Psychology 471 or approved nonmusic elective	2
	16		15

Applied Music: completion of Piano 222. An additional two hours of applied music may be elected each semester with the adviser's approval.

MASTER OF MUSIC

REQUIREMENTS (PROGRAM I)

Major field: fifteen semester hours, including Theory 591 (thesis); Musicology 541, 544, 545, 546; and an introductory course to graduate study

Minor field: eight semester hours of applied music

Electives: to complete minimum requirements of thirty semester hours (students anticipating work at the doctoral level should consider the election of foreign languages)

REQUIREMENTS (PROGRAM II)

Major field: fifteen semester hours, including an introductory course to graduate study; Theory 571, 572, 591 (project in arranging), and Musicology 541, 544, 545, 546

Minor field: eight semester hours of applied music

Electives: to complete minimum requirements of thirty semester hours (students anticipating work at the doctoral level should consider the election of foreign languages)

DOCTORAL PROGRAMS

Students contemplating work beyond the M.Mus. degree and possible admission to the doctoral program in musicology should consult their advisers concerning the inclusion in the master's program of certain courses customarily covered in the preliminary examinations for the doctorate. For details of requirements for the degree Doctor of Philosophy with major in music see the *Announcement* of the Horace H. Rackham School of Graduate Studies under the heading "Music."

VOICE

For students who wish to work in the professional vocal field, including concert singing, church solo work, college teaching, opera, radio, and television. Students desiring to teach in elementary or secondary schools should elect the curriculum in choral music education.

Precollege Music Preparation. It is not necessary to have studied voice privately during the high school years. Participation in choral groups is encouraged. It is desirable for a student to have had a background of piano study before entering this program as a freshman.

BACHELOR OF MUSIC

BASIC MUSIC REQUIREMENTS

Voice: four years of study as a voice major at the college level, with presentation of a graduation recital

Piano: completion of Course 111

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation) and keyboard harmony

Music Literature: one-year course in music appreciation and one-year course in the history of music

Choral Ensemble: elected each semester with permission of voice instructor

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

Italian, German, French (not diction courses): one semester of each with grade of B or A; two semesters of any language in which a lower grade is earned

English: one year

Physical Education: one year

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total minimum semester hours for graduation: 120

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Voice 100	4	Voice 140	4
Piano 111	2	Piano 112	2
Ensemble 349	1	Ensemble 349	1
Theory 100	3	Theory 140	3
English 123	3	English 124	3
Italian 101	4	Nonmusic elective	4
Physical Education	0	Physical Education	0
	17		17
SOPHOMORE			
Voice 239	4	Voice 240	4
Piano 113	2	Piano 114	2
Ensemble 349	1	Ensemble 349	1
Theory 111	1	Theory 112	1
Theory 239	3	Theory 240	3
Music Literature 139	2	Music Literature 140	2
German 101	4	Nonmusic elective	4
	17		17
JUNIOR			
Voice 339	4	Voice 340	4
Ensemble 349	1	Ensemble 349	1
Theory 211	1	Theory 212	1
Music Literature 239	2	Music Literature 240	2
French 101	4	Electives	9
Electives (Opera, Music Literature, nonmusic)	5		17
	17		

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
SENIOR			
Voice 439	4	Voice 440	4
Ensemble 349	1	Recital	0
Electives	10	Ensemble 349	1
		Electives	10
	15		
			15

MASTER OF MUSIC

REQUIREMENTS

Major: a minimum of fifteen hours of graduate voice courses including Voice Literature 519, recital, and electives in vocal literature courses and choral ensemble

Minor: a minimum of eight semester hours credit in opera or other music or nonmusic field

Electives: a minimum of seven semester hours of electives chosen from areas not represented by the major or minor fields. Music literature or theory is recommended. (Students anticipating work at the doctoral level should consider the election of foreign languages.)

Total minimum semester hours for graduation: 30

DOCTOR OF MUSICAL ARTS

Students contemplating work beyond the M.Mus. degree and possible admission to the doctoral program in voice should consult their advisers for inclusion in their master's program of certain courses customarily covered in the preliminary examinations for the doctorate. For details of requirements for the degree Doctor of Musical Arts see the *Announcement* of the Horace H. Rackham School of Graduate Studies under the heading "Music."

WIND INSTRUMENTS

BACHELOR OF MUSIC

Curriculum A (including certification in public schools)

Designed for students who desire to teach wind instruments and conduct bands or orchestras in colleges or high schools. Emphasis is placed upon performance in both the major and secondary wind instruments, on theory, conducting, and related music and academic courses.

Because of the additional work necessary to complete the requirements for a teacher's certificate, the program usually requires at least two summer sessions in addition to the prescribed eight semesters.

If students can fulfill by examination any of the specific requirements listed below, they may thus reduce the length of resident study or elect equivalent semester hours of courses in other fields.

BASIC MUSIC REQUIREMENTS

Principal Wind Instrument: elected each year, to complete Course 440

Secondary Wind Instruments: completion of Course 114 in each of three instruments in the same group (brass or woodwind) as the major instrument

Other Secondary Instruments: one semester each of clarinet, cornet, violin, and percussion

Conducting: one year

Piano: completion of Course 112

Music Literature: one year of music appreciation, one year of history of music, and a one-semester elective

Theory: two years of basic musicianship (harmony, sight singing, ear training, and melodic, harmonic, and contrapuntal dictation and analysis) and keyboard harmony, one semester of orchestration and instrumentation, and a one-semester elective

Ensemble: band to be elected during each semester in residence and orchestra or small wind ensemble to be elected for a minimum of two semesters

Senior Recital: during last semester of residence

Music Education: fundamentals of teaching string instruments; fundamentals of teaching band instruments; administration of instrumental music; materials for instrumental organizations; band techniques; wind instrument literature; and directed teaching of instrumental music in elementary and secondary schools

BASIC NONMUSIC REQUIREMENTS

Minimum of 30-37 semester hours

English: six hours

Psychology: four hours

Education: educational psychology and one of each of the following courses: history of education, philosophy of education, educational sociology

Physical Education: one year

General Education: 15-22 semester hours (including second minor); for details, see description of general education requirements for majors in music education

ELECTIVES

To complete graduation and teaching certificate requirements

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Major Instrument 100	4	Major Instrument 140	4
Piano 111	2	Piano 112	2
Ensemble 347	1	Ensemble 347	1
Theory 100	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	15		15
SOPHOMORE			
Major Instrument 239	4	Major Instrument 240	4
Violin 111	2	Clarinet or Cornet 111	2
Ensemble 347	1	Ensemble 347	1
Theory 111	1	Theory 112	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
Psychology 101	4	Nonmusic elective	4
	17		17
SUMMER SESSION			
Secondary Instrument 111	2		
Percussion 111	2		
Ensemble 347	1		
Education C300	3		
	8		
JUNIOR			
Major Instrument 339	4	Major Instrument 340	4
Secondary Instrument 112	2	Secondary Instrument 113	2
Ensemble 345	1	Ensemble 345	1
Ensemble 347	1	Ensemble 347	1
Conducting 300	2	Conducting 301	2
Theory 211	1	Theory 212	1
Theory 451	2	Theory 452	2
Education D370	2	Education D372	2
Nonmusic elective	4	Nonmusic elective	4
	19		19
SUMMER SESSION			
Secondary Instrument 111	2		
Secondary Instrument 111	2		
Ensemble 347	1		
Education A301, A325, A330	2		
Music Education 471	2		
	9		

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
SENIOR			
Major Instrument 439	4	Major Instrument 440	4
Secondary Instrument 112	2	Recital	0
Ensemble 345	1	Secondary Instrument 112	2
Ensemble 347	1	Ensemble 345	1
Education D373	2	Ensemble 347	1
Education D375	2	Education D376	2
Education D377	2	Education D378	2
Nonmusic elective	4	Education D380	2
	18	Music Education 472	2
			16

Curriculum B (not including teacher's certificate)

For the student desiring to teach or conduct bands and orchestras at the college level or to play in professional orchestras or bands. Students desiring to teach and conduct wind instrument classes and bands in elementary or secondary schools should elect either Curriculum A in wind instruments or the curriculum in instrumental music education.

Precollege Music Preparation. A minimum of four years' experience with one or more band instruments in both private lessons and ensemble playing.

BASIC MUSIC REQUIREMENTS

Major Instrument: elected each year, to complete Course 440

Piano: completion of Course 112

Secondary Instruments: completion of Course 114 in each of three instruments in the same group (brass or woodwind) as the major instrument

Ensemble: band elected each semester, orchestra elected for a minimum of four semesters, and brass or woodwind ensemble elected for a minimum of four semesters

Theory: two years of basic musicianship (harmony, sight singing, ear training, melodic, harmonic, and contrapuntal dictation) and keyboard harmony; one year of form and analysis

Music Literature: one-year course in music appreciation and a one-year course in the history of music

Conducting: one year

Music Education: one year of band techniques; one semester of wind instrument literature

BASIC NONMUSIC REQUIREMENTS

Minimum of 30 semester hours

English: one year

Physical Education: one year

ELECTIVES

Music and nonmusic courses to complete graduation requirements

Total minimum semester hours for graduation: 120

USUAL PROGRAM OF ELECTIONS

<i>First Semester</i>	<i>Credit Hours</i>	<i>Second Semester</i>	<i>Credit Hours</i>
FRESHMAN			
Major Instrument 100	4	Major Instrument 140	4
Piano 111	2	Piano 112	2
Ensemble 347	1	Ensemble 347	1
Ensemble 461 or 463	1	Ensemble 461 or 463	1
Theory 100	3	Theory 140	3
Music Literature 139	2	Music Literature 140	2
English 123	3	English 124	3
Physical Education	0	Physical Education	0
	16		16
SOPHOMORE			
Major Instrument 239	4	Major Instrument 240	4
Secondary Instrument	2	Secondary Instrument	2
Ensemble 347	1	Ensemble 347	1
Ensemble 461 or 463	1	Ensemble 461 or 463	1
Theory 111	1	Theory 112	1
Theory 239	3	Theory 240	3
Music Literature 239	2	Music Literature 240	2
Nonmusic elective	4	Nonmusic elective	4
	18		18
JUNIOR			
Major Instrument 349	4	Major Instrument 340	4
Secondary Instrument	2	Secondary Instrument	2
Ensemble 345	1	Ensemble 345	1
Ensemble 347	1	Ensemble 347	1
Theory 211	1	Theory 212	1
Theory 451	2	Theory 452	2
Music Education 470	2	Music Education 471	2
Nonmusic elective	4	Nonmusic elective	4
	17		17
SENIOR			
Major Instrument 439	4	Major Instrument 440	4
Secondary Instrument	2	Recital	0
Ensemble 345	1	Secondary Instrument	2
Ensemble 347	1	Ensemble 345	1
Conducting 455	2	Ensemble 347	1
Nonmusic elective	4	Conducting 456	2
	14	Music Education 472	2
		Nonmusic elective	4
			16

MASTER OF MUSIC

Major field: a minimum of sixteen semester hours of graduate work including completion of Course 540 on the major instrument and Course 116 on three

secondary instruments in the same group (brass or woodwind) as the major instrument; band to be elected each period of residence

Minor field: a minimum of eight semester hours of credit in related fields as approved by the adviser

Electives: a minimum of six semester hours of electives to complete minimum of thirty graduate semester hours (students anticipating work at the doctoral level should consider the election of foreign languages)

Total minimum semester hours for graduation: 30

DOCTOR OF MUSICAL ARTS

Students contemplating work beyond the M.Mus. degree and possible admission to the doctoral program in wind instruments should consult their advisers for inclusion in their master's programs of certain courses customarily covered in the preliminary examinations for the doctorate. For details of requirements for the degree Doctor of Musical Arts see the *Announcement* of the Horace H. Rackham School of Graduate Studies.

Courses of Instruction

Courses numbered from 100–299 are intended for freshmen and sophomores, and those from 300–499 may be elected by juniors and seniors and by graduates with the approval of the major department. Courses numbered above 500 are designed for graduates only and may be elected by undergraduates only by special permission.

The italic numeral enclosed in parentheses indicates the credit hours for the course: (4) denotes four hours of credit.

The specific courses to be offered in a given semester or summer session will be published in the *Time Schedule*.

APPLIED MUSIC (PERFORMANCE)

Comprehensive Fee. The semester fee for the School of Music entitles the full-time student to instruction in applied music as specified in the selected departmental curriculum, together with the use of practice facilities.

Definition of Major Courses. All major courses yield four hours of credit each during the academic year and two hours credit each in the summer session. Instruction in major courses includes an individual lesson of one hour each week or the equivalent in small groups, or the combination of the two plans, as the character of the work is best served. Courses 240, 440, and 540 in any applied music department may be repeated for additional credit upon recommendation of the departmental faculty.

Definition of Secondary Courses. Secondary courses normally yield two hours of credit each and include an individual lesson of one-half hour each week or

the equivalent in small groups, or the combination of the two plans, as the character of the work is best served.

Under certain programs it is desirable that four hours of credit in a single applied music subject be elected in secondary courses in a given semester. With the approval of the adviser for the major field, secondary courses may be elected for four hours. Such an election implies that one hour of instruction and two hours of daily practice each week will be required and that the work will be the equivalent of that course and the one carrying the next highest number, e.g., Piano 219 for four hours credit is the equivalent of Piano 219 and 220 for two hours each. If a passing grade is received in Piano 219 for four hours and a second block of four hours credit is required the following semester the next course to be elected in the example would be Piano 221 for four hours.

Courses 222, 426, and 528 in any applied music department may be repeated for additional credit upon recommendation of the departmental faculty.

CORRELATION OF COURSE NUMBERS IN APPLIED MUSIC

Major Courses		Secondary Courses †	
		111, 112, 113, 114	
		115, 116, 217, 218	
Freshman	139	Freshman	219, 220
	140	Sophomore	221, 222*
Sophomore	239	Junior	423, 424
	240*	Senior	425, 426*
Junior	339		
	340	Graduate	527, 528*
Senior	439		529, 530
	440*		531, 532
			533, 534
Graduate	539		535, 536
	540*		537, 538

*May be repeated for additional credit if proficiency for junior standing or graduation has not been met in the first election of any one of these courses.

†Secondary courses cover approximately the literature and technique of the equivalent major courses.

CARILLON

SECONDARY COURSES

219, 220. (2 or 4).

Elementary technique: correct positions for playing keys and pedals. Principles of notation for carillon. Simple repertory including compositions for carillon and arrangements. Adjustment and upkeep of the instrument.

221, 222. (2 or 4).

Arranging carillon music. Advanced repertory played on European and American carillons. Historical survey of the instrument including all types of

mechanical playing, and carillon music as affected by mechanical play. Broadcasting and recording combinations of carillon with other instruments.

423–538. (2 or 4).

COMPOSITION

MAJOR COURSES

These courses are given as a combination of individual lessons and scheduled lectures.

139, 140. (3 each, S.S. 2 each).

An introduction to the basic craft of musical composition.

239, 240. (3 each, S.S. 2 each).

Continuation of the study of the basic craft of musical composition; emphasis on contrapuntal writing.

339, 340. (4 each, S.S. 2 each).

Advanced composition. The study of larger musical forms.

439, 440. (4 each, S.S. 2 each).

Advanced composition.

539, 540. Seminar in Composition. *Prerequisite: Composition 440.* (2 or 4 each).

May be repeated for a total of twelve hours of credit. For upper division and master's degree students.

891, 892. Advanced Seminar in Composition. *Prerequisite: Composition 540.* (2, 3, 4, 5, or 6 each).

May be repeated for a total of twelve hours of credit.

991. Directed Composition. (2 or 4).

Preparation of doctoral dissertation.

SECONDARY COURSES

221. Introduction to Elementary Composition. (3).

For students who wish to gain an understanding of musical theory by writing music. The composition of chorales, melodies, and the harmonization of melodies. Open only to students not enrolled in the School of Music.

222. Composition. *Prerequisite: Composition 221.* (3).

A study of musical structure and the analysis and composing of simple tonal forms. An introduction to instrumental idiom. Open only to students not enrolled in the School of Music.

421, 422. Creative Composition. (3 each).

For students interested in doing original creative work in contemporary idiom. The relating of traditional practice to contemporary practice. Course 422 is a continuation of Course 421 with greater emphasis on analysis of contemporary scores and on contemporary creative practice. Open to music and nonmusic students.

423, 424. Advanced Composition. *Prerequisite: Composition 422. (2 or 4 each).*
The composition of larger forms for small ensembles. Individual instruction. Open to music and nonmusic students.

425, 426. Advanced Composition. *Prerequisite: Composition 424. (2 or 4 each).*
Individual instruction. Open to music and nonmusic students.

521, 522. Seminar in Composition. *Prerequisite: Composition 424. (2, 3, or 4 each).*

The composition of large forms for ensemble or orchestra. Individual instruction. Open to music and nonmusic students.

COMPOSITION LITERATURE

501. Contemporary Serial Composition. (2).

502. Contemporary American Composition. (2).

505. Music of Stravinsky. (2).

506. Music of Bartok. (2).

CONDUCTING

300, 301. Elementary Conducting. (2 each, S.S. 1 or 2 each).

401. Advanced Conducting for Secondary School Orchestras. (2).

453. Score Reading and Advanced Conducting. *Prerequisite: Conducting 301 and Piano 219 or equivalent.* (2).

455, 456. Band Conducting. (2 each).

475, 476. Advanced Choral Conducting and Repertory. (2 each). Ensemble 349 to be elected concurrently.

477, 478. Orchestral Conducting. (2 each).

ENSEMBLE

235. Chamber Music. (1 or 2).

325. Practical Problems in Orchestra Playing for Double Bass. (1).

330. Harp Ensemble. (1).

335. String Quartet. (2).

May be repeated for additional credit.

345. University Symphony Orchestra. (1).

May be repeated for additional credit.

347. University Bands. (1).

May be repeated for additional credit.

349. University Choir. (1).

May be repeated for additional credit.

350. Symphonic Choir and Vocal Chamber Ensembles. Prerequisite: permission of instructor. (1). Must be elected concurrently with Ensemble 349.

May be repeated for additional credit.

351. Advanced Choral Ensemble. (1).**352. Opera Chorus. (1).**

May be repeated for additional credit.

461. Small Woodwind Ensembles. (1).

May be repeated for additional credit.

463. Small Brass Ensembles. (1).

May be repeated for additional credit.

481. Accompanying and Piano Ensemble. (2).

May be repeated for additional credit.

Six hours of accompanying required each week under supervision. In addition to a weekly seminar and two one-hour classes in the art of transposition by clef the student will be assigned to an instructor in one of the applied music departments.

535. String Quartet. (2).

May be repeated for additional credit.

540. Instrumental Chamber Ensembles. (2). Open only to graduate students with accompanying experience and permission of the instructor.

HARP

MAJOR COURSES

139, 140. (4 each).

Technical studies; pieces by Salzedo, Debussy, Bach, Rameau, and others. Minimum of six works per semester.

239, 240. (4 each).

Technical studies; pieces from Debussy, Grandjany, Pierne, and Salzedo, or equivalent.

339, 340. (4 each).

Further technical study in works such as Ravel, Introduction et Allegro, and Salzedo, Scintillation; other works to be included on the public recital.

449, 450. (4 each).

Complete the repertory and prepare a program for public performance.

539, 540. (4 each).

SECONDARY COURSES

219-538. (2 or 4 each).

MUSIC EDUCATION

- 340 (Ed.D 340). Fundamentals of Vocal Music for Secondary Schools. *Prerequisite: Piano 217, Mus. Ed. 300.* (3, 2 grad.).
- 341 (Ed.D 341). Fundamentals of Vocal Music for Elementary Schools. *Prerequisite: Piano 217, Mus. Ed. 300.* (3, 2 grad.).
- 342 (Ed.D 342). School Vocal Music Materials and Techniques. *Prerequisite: Mus. Ed. 340 and 341.* (3, 2 grad.).
344. Professional Problems in Music Education. *Prerequisite: Mus. Ed. 340, 341, and 342.* (2).
- 345 (Ed.D 345). Directed Teaching of Vocal Music in Primary Grades. (2).
- 346 (Ed.D 346). Directed Teaching of Vocal Music in Intermediate Grades. (2).
- 347 (Ed.D 347). Directed Teaching of Vocal Music in Junior High School. (2).
- 348 (Ed.D 348). Directed Teaching of Vocal Music in Senior High School. (2).
- 349 (Ed.D 349). General Music in Elementary and Secondary Schools. (2).
- 370 (Ed.D 370). Fundamentals of Teaching String Instruments. (2).
- 371 (Ed.D 371). Instrumental Methods for Elementary Schools. (2).
- 372 (Ed.D 372). Fundamentals of Teaching Band Instruments. (2).
- 373 (Ed.D 373). Administration of Instrumental Music. (2).
374. Methods for Elementary School String Choir. (2).
- 375, 376 (Ed.D 375, 376). Directed Teaching of Instrumental Music in Elementary Schools. (2 each).
- 377, 378 (Ed.D 377, 378). Directed Teaching of Instrumental Music in Secondary Schools. (2 each).
- 379 (Ed.D 379). Materials for Instrumental Organizations. (2).
400. Audio-Visual Materials for School Music. (2).
402. Workshop in the School Music Curriculum. (2).
440. Teaching of Music by Elementary School Teachers. (2 or 3).
Open only to students in other units of the University.
441. Music Methods and Materials for Physical Education Teachers. (3).
Open only to students in other units of the University.
442. Advanced Choral Techniques and Repertory. (2).
443. Operetta and Pageant Production. (2).
444. Creative Activities in Music Education. (2).
445. Workshop in Elementary School Music. (2).
446. Workshop in Junior High School General Music. (2).
- 447 (Ed.D 447). Practicum in Choral Music Education. (2).
448. High School Operetta Production. (2)
449. Demonstration Laboratory in Choral Literature. (1).

470. **Marching Band Techniques.** (2, S.S. 1).
471. **Band Techniques.** (2).
472. **Wind Instrument Literature.** (2).
473. **Laboratory in Band Literature and Techniques.** (2).
474. **Study of Wind Instruments in Class.** (1).
475. **Special Problems in Teaching String Instruments.** (2).
476. **Survey of School Orchestra Materials and Procedures.** (1).
- 477 (Ed.D 477). **Practicum in Instrumental Music Education.** (2).
478. **Teaching of String Instruments.** (2).
479. **Methods and Materials for Teaching Piano Classes in the Schools.** (2).
480. **Teaching of Cello and Double Bass.** (1).
500. **Introduction to Graduate Study in Music Education.** (2).
Bibliographical material, library resources, and study techniques directed specifically toward music education objectives. Required of all graduate students in music education.
501. **Proseminar in the History and Philosophy of Music Education.** *Prerequisite:* Mus. Ed. 500 must be taken before or concurrently. (2).
502. **Thesis for Master's Degree in Music Education.** *Prerequisite:* Mus. Ed. 500. (2). May be repeated for a total of four hours credit.
- 503, 504. **Supervision and Administration of Music Education.** (2 each).
- 505, 506. **Special Courses in Music Education.** (1, 2, or 3 each).
See *Time Schedule* for title of special course given in a particular semester or summer session. May be repeated for additional credit.
- 507 (Ed.D 507). **Special Problems in Methods and Administration of School Music.** (2).
508. **Music and the Humanities in Secondary Schools.** (2).
540. **Advanced Studies in Teaching of Vocal Music in Junior and Senior High School.** (2).
541. **Advanced Studies in Teaching Elementary School Music.** (2).
542. **Vocal Pedagogy and the Solo Repertory in the Secondary School.** (2).
543. **Seminar in Choral Techniques and Repertory.** (2).
544. **Fundamentals of Teaching Vocal Music in Elementary Schools.** (2).
For graduate instrumental majors in music education who have had no undergraduate course in elementary school vocal methods.
545. **Fundamentals of Teaching Vocal Music in Secondary Schools.** (2).
For graduate instrumental majors in music education who have had no undergraduate course in secondary school vocal methods.
570. **Organization and Development of the School Band.** (2).
571. **The Band and Its Music.** (2).
572. **Fundamentals of Teaching Instrumental Music.** (2).
For graduate choral majors in music education who have had no undergraduate course in instrumental methods.

800. Seminar in School Music Curriculum. (2).
801. Seminar in Teacher Training in Music Education. (2).
 Doctoral program.
802. Seminar in Historical Research in Music Education. (2).
 Doctoral program.
803. Seminar in Quantitative Research in Music Education. (2).
 Doctoral program.
804. Seminar in Music Education Problems, Materials, and Trends. (2).
805. Seminar in College and University Administration. (2).
991. Directed Research. (2, 4, or 6).
 Preparation of doctoral dissertation. May be repeated for additional credit.

MUSIC HONORS

395. Music Honors. *Prerequisite: admission to Honors Scholar Program and permission of the scholar's adviser and the chairman of the Honors Council. (2, 3, or 4).* May be elected concurrently in more than one department and may be repeated for additional credit.

Honors scholars planning special studies under tutorial guidance should elect the special course Music Honors 395. The number of hours credit depends on the nature of the studies planned among the honors scholar, his adviser, his honors tutor, and the chairman of the Honors Council.

396, 397. Honors Seminar. *Prerequisite: required of honors scholars and open to juniors and seniors with 3.5 average or higher. Other juniors and seniors with averages of 3.0 or above may enroll with permission of adviser and chairman of honors council. (2 each).*

The seminar is devoted to assigned readings and discussion covering a broad range of challenging topics and will from time to time engage the participation of faculty members from other units of the University. It may be elected for one or two semesters.

MUSIC LITERATURE AND HISTORY

139, 140. Introduction to the Literature of Music. (2 each).

239, 240. History of Music. (2 each).

341. Introduction to the Art of Music. (3, S.S. 2).

For non-School of Music students only.

342. Music Literature. (3, S.S. 2).

For non-School of Music students only.

343. Music in History. (3, S.S. 2).

For non-School of Music students only.

- 355. Chamber Music of the Classic Period. (2).
- 410. The Major Traditions of the Arts in the West. (2).
- 411. Symphony of the Classic Period. (2).
- 412. Symphonic Literature of the 19th and 20th Centuries. (2).
- 413. Opera from Mozart to the Present. (3, S.S. 2).
- 420. Music of the Seventeenth Century. (3, S.S. 2).
- 421. Music of the Eighteenth Century. (3, S.S. 2).
- 422. Music of the Nineteenth Century. (3, S.S. 2).
- 423. Music of the Twentieth Century. (3, S.S. 2).
- 424. Art Song. (2).
- 425. Music of Joseph Haydn. (3, S.S. 2).
- 444. Richard Wagner and the Music Drama. (3, S.S. 2).
- 449. Survey of Music Literature. (2).
- 450. American Music. (3, S.S. 2).
- 460. Music Cultures of Western Hemisphere and Europe. (3, S.S. 2).
- 461. Music Cultures of Asia, Africa, and the Pacific. (3, S.S. 2).
- 462. Japanese Music. (2).
- 477. Medieval Music. (3, S.S. 2).
- 478. Renaissance Music. (3, S.S. 2).
- 486. History of Singing. (2).
- 503. Bibliography of Music Literature. (2).
- 504. Advanced Studies in the History and Literature of Music. (2 or 4).
To be taken in place of 555, 556 by students preparing for the Ph.D. in musicology.
- 509. Teaching of Music Literature. (3, S.S. 2).
- 510. Teaching of Music History. (2).
- 555, 556. Thesis in Music Literature. (2 each).

MUSICOLOGY

Degree programs in musicology are described in the *Announcement* of the Horace H. Rackham School of Graduate Studies.

Musicology 501 is a prerequisite for all other courses in Musicology.

- 400. Collegium Musicum. (1).

May be repeated for additional credit.

- 501. Introduction to Graduate Study. (2—4).
- 502. Practical Bibliographical and Research Techniques. (2—4).
- 504. Introduction to Mensural Notation and Tablatures. (3, S.S. 2).

541. Proseminar in Middle Ages and Renaissance. (3, S.S. 2).

544. Proseminar in Seventeenth and Eighteenth Centuries. (3, S.S. 2).

545. Proseminar in Earlier Nineteenth-Century Styles. (3, S.S. 2).

546. Proseminar in Later Nineteenth-Century Styles. (3, S.S. 2).

547. Proseminar in Ethnomusicology. (3, S.S. 2).

591. Thesis for Master's Degree. (2-6).

Thesis credit is in addition to the minimum of 24 hours required for Master of Arts degree.

705, 706. Special Courses by Guest Lecturers. (3 each, S.S. 2).

May be repeated for additional credit. See *Time Schedule* for title of special course given in any particular semester or summer session.

707, 708. Special Courses. (2-4 each).

May be repeated for additional credit. See *Time Schedule* for title of special course given in any particular semester or summer session.

731, 732. History and Application of Performance Practices. (3 each, S.S. 2).

810. Seminar in Twentieth-Century European Music. (3, S.S. 2).

812. Seminar in American Music. (3, S.S. 2).

816. Seminar in History of Musical Instruments. (3, S.S. 2).

821. Seminar in History of Theory. (3, S.S. 2).

831. Seminar in Growth of Liturgical Music. (3, S.S. 2).

834. Seminar in History of Keyboard Music. (3, S.S. 2).

836. Seminar in Ensemble and Chamber Music. (3, S.S. 2).

891, 892. Final Seminar in Musicological Materials. (2-4 each).

May be repeated for credit.

This seminar should be elected during the two semesters immediately before the examination qualifying for admission to candidacy.

991. Directed Research. (2-6).

May be repeated for additional credit. Preparation of doctoral dissertation.

MUSIC PERFORMANCE

Doctoral programs in music performance are described in the *Announcement* of the Horace H. Rackham School of Graduate Studies.

All seminars in music performance are sectioned as follows: Section 1, Piano; Section 2, Strings; Section 3, Voice; Section 4, Organ; Section 5, Wind Instruments.

591, 592. Directed Performance. (2 each).

Open only to doctoral students in music. May be repeated for additional credit.

781, 782. Seminar in Performance Problems. (2, 3, or 4 each). *Prerequisite: admission to departmental curriculum in performance or permission of instructor.*

May be repeated for additional credit.

891, 892. Directed Performance. (2, 3, or 4 each). *Prerequisite: admission to departmental curriculum in performance or permission of instructor.*
May be repeated for additional credit.

991. Directed Performance. (2, 3, or 4). *Open only to students who have completed preliminary examinations and are candidates for the A. Mus. D. degree.*
May be repeated for additional credit.

ORGAN AND CHURCH MUSIC

MAJOR COURSES

139, 140. (4 each).

Studies: easier choral preludes; preludes and fugues by Bach.

239, 240. (4 each).

The student will be expected to learn and memorize an adequate repertory represented by the following works: one of the simpler choral preludes by an old master; a work of moderate difficulty by an old master of the French or Italian school; compositions such as Bach, Preludes and Fugues in C major and G minor and Fantasia in C minor, a movement from a trio-sonata, and chorale preludes of moderate difficulty; Franck, Cantabile; Chorale Preludes by Brahms; or Vierne, 24 Pieces in Free Style.

339, 340, 439, 440. (4 each).

Continuation of study of technique and extension of repertory. During these four courses the student should have completed the major part of the repertory requirements for graduation. The breadth and extent of these requirements are set forth below, and the exact sequence or choice of specific compositions selected to meet the requirements in each group is flexible and will be arranged by the instructor in relation to the capacities of the individual student.

Organ 440 will be devoted to the preparation and performance of the recital program and completion of repertory requirements.

GRADUATION REPERTORY REQUIREMENT

At least one large work and three smaller works from such composers as Sweelinck, Frescobaldi, Pachelbel, Buxtehude; three or more of the major works of Bach such as Fantasia and Fugue in G minor, Prelude and Fugue in G minor, or works of comparable difficulty; at least one trio-sonata and three of the larger chorale preludes in addition to several lesser chorale preludes by Bach; one of the larger works by Franck or a comparable work from the nineteenth century; and at least one of the standard works of a twentieth-century composer.

539, 540. (4 each).

Designed to extend the work in repertory.

SECONDARY COURSES

219-538. (2 or 4 each).

ORGAN AND CHURCH MUSIC LITERATURE

For seminars at the doctoral level see "Music Performance."

283. History of the Design and Construction of the Organ. (2, S.S. I).

481. History of Organ Literature. (2).

483, 484. Church Music, Liturgies, and Hymnology. (2 each).

485. Church Service Playing. (2).

PIANO

MAJOR COURSES

139, 140. (4 each).

Bach: inventions, Well-Tempered Clavier, French suites; Scarlatti, Hayden, Mozart, and Beethoven sonatas; shorter works by Schubert, Mendelssohn, Schumann, and Chopin; moderately difficult impressionistic or contemporary works.

239, 240. (4 each).

Bach: Well-Tempered Clavier, English suites, and partitas; Mozart or Beethoven concerto; added sonatas and shorter pieces as in Piano 140 but including Brahms and Liszt.

339, 340. (4 each).

Bach: partitas, toccatas, Chromatic Fantasy, Italian Concerto, or transcriptions; Beethoven, sonatas Op. 53 to 111; the more demanding works of the romantic, impressionistic, and contemporary composers; a second concerto.

439, 440. (4 each).

This final year is directed toward the fulfillment of the minimum repertory requirements, i.e., at least two full programs and two complete concertos. One concerto, subject to competition, may be played with orchestra and one program, acceptable to the faculty, must be performed publicly.

539, 540. (4 each).

Advanced study in technique, interpretation, and repertory. At least one concerto beyond the senior requirement. Graduate recital.

SECONDARY COURSES—GROUP INSTRUCTION

111, 112. (2 each).

Acquaintance with the keyboard. Scales, chords, sight reading, transposition, elementary piano repertory.

113, 114. (2 each).

A continuation of Piano 111 and 112 with greater emphasis on sight reading and accompanying. Harmonization of melodies.

205, 206. (2 each).

Sight reading, harmonization, transposition, accompanying, and intermediate repertory. (The basic proficiency required is equivalent to Piano 115–116.)

207, 208. (2 each).

A continuation of Piano 205 and 206 with more difficult material. Piano 208 may be repeated until desired proficiency is achieved. (The basic proficiency required is equivalent to Piano 217–218.)

SECONDARY COURSES—INDIVIDUAL INSTRUCTION

115, 116. (2 or 4 each).

Standard intermediate piano repertory.

217, 218. (2 or 4 each).

A continuation of Piano 115 and 116 with more difficult material. Piano 218 may be repeated until desired proficiency is achieved.

219–538. (2 or 4 each).

PIANO LITERATURE

For seminars at the doctoral level see "Music Performance."

385. Piano Teaching Techniques and Materials for the Elementary Level.
(3, S.S. 2).

386. Piano Teaching Techniques and Materials for the Intermediate Level.
(3, S.S. 2).

401. Piano Technology. (2).

487, 488. Literature of Piano Music for the Advanced Student. (2 each, S.S. 1 each).

493, 494. Keyboard Fugue in Performance. (2 each).

STRINGS

MAJOR COURSES

Repertory assignments are supplemented by technical assignments according to appropriate proficiency level and the specific needs and requirements of individual students. Course content includes the periodic study of short compositions.

CELLO

139, 140. (4 each).

Materials selected from studies by Kummer, Duport, and others; sonatas of the seventeenth and eighteenth centuries; and concertos by Goltermann, Romberg, and others.

239, 240. (4 each).

Materials selected from studies by Popper; sonatas of the seventeenth and eighteenth centuries; and concertos by Böellmann, Boccherini, and others.

339, 340. (*4 each*).

Materials selected from studies by Piatti and others; sonatas of the nineteenth and twentieth centuries; the suites by J. S. Bach; and concertos by Lalo, Haydn, and others.

439, 440. (*4 each*).

Fulfillment of, or additions to, minimum repertory requirements: preparation of a program acceptable to the faculty for required public performance.

539, 540. (*4 each*).

Advanced study in technique, interpretation, and repertory. Completion of repertory and recital program requirements.

DOUBLE BASS

139, 140. (*4 each*).

Studies by Nanny, Storch-Hrabe, and others. Sonatas by Handel, Marcello, and others.

239, 240. (*4 each*).

Continuation of Storch-Hrabe studies and others by Simandl, and Nanny when appropriate. Sonatas by Galliard, Antonioti, Corelli, and others. Study of orchestral literature.

339, 340. (*4 each*).

Nanny-Kreutzer, Fiorillo Studies, Storch-Hrabe Etudes, Book II, and others. Sonatas by Handel, Eccles, and others when appropriate. Continued study of orchestral literature.

439, 440. (*4 each*).

Concertos by Bottesinni, Dragonetti, and Koussevitsky when appropriate. Sonatas by Hindemith and others. Gradus Ad Parnassum by Simandl. Continued study of orchestral literature.

539, 540. (*4 each*).

Advanced study in technique, interpretation, and repertory. Completion of repertory and recital program requirements.

VIOLA

139, 140. (*4 each*).

Studies by Hoffman and Schradieck. Concertos by Telemann, J. C. Bach, Handel, and others.

239, 240. (*4 each*).

Studies by Hoffmeister, Campagnoli. Concertos by Stamitz, Hoffmeister, and introduction to contemporary music.

339, 340. (*4 each*).

Studies by Lilian Fuchs and Maurice Vieux. Classical and contemporary concerted works.

439, 440. (*4 each*).

Solo works and concertos by Hindemith, Bloch, Walton, Milhaud, Bartók, and others. Completion of repertory and recital program requirements.

539, 540. (*4 each*).

Advanced study in technique, interpretation, and repertory. Completion of repertory and recital program requirements.

VIOLIN

139, 140. (4 each).

Studies by Kreutzer. Sonatas of the seventeenth and eighteenth centuries. Concertos by Nardini, Vivaldi, and others.

239, 240. (4 each).

Studies by Kreutzer and Rode. Sonatas of the seventeenth and eighteenth centuries including Handel. Concertos by Bach, De Lote, Mozart, and others.

339, 340. (4 each).

Studies by Rode, Fiorillo, and others. Sonatas of the eighteenth and nineteenth centuries, including selected movements from the Bach solo sonatas. Concertos by Mozart, Vieuxtemps, Bruch, and others.

439, 440. (4 each).

Selected advanced studies. Sonatas of the eighteenth, nineteenth, and twentieth centuries including Bach solo sonatas. Concertos and large-form compositions. Completion of repertory and recital program requirements.

539, 540. (4 each).

Advanced study in technique, interpretation, and repertory, for qualified students only. Completion of repertory and recital program requirements.

SECONDARY COURSES

CELLO

111, 112. (2 each).

Introduction to the fundamental principles of cello technique; includes study of staccato, position changes, and vibrato. Pieces such as Pergolesi, Nina; Goltermann, 4th Concerto.

113, 114. (2 each).

Introduction of thumb position, spiccato. Studies of Kummer and Dotzauer. Easy sonatas of seventeenth century and shorter pieces by Fauré and Popper.

115-538. (2 or 4 each).

DOUBLE BASS

111, 112. (2 each).

Introduction to the technique of the double bass including the fundamentals of tone production, legato, staccato, vibrato, and shifting positions. Basic studies and pieces for the development of orchestral style.

113, 114. (2 or 4 each).

Expansion of left-hand facility and bow technique. Pieces by Handel and Marcello when appropriate. Study of appropriate orchestral literature.

STRINGS

121. (2).

A general introduction to string instruments for music education choral majors only.

VIOLA

111, 112. (2).

Same as Violin 111, 112, plus training in reading the alto clef.

113, 114. (2 each).

Expansion of left-hand facility and bow technique. Introduction to *spiccato* and continuation of training in tone production, vibrato, and position changes. Selected studies. Pieces by Marais and others.

115—538. (2 or 4 each).

VIOLIN

111, 112. (2 each).

Introduction to the principles of violin technique including the fundamentals of tone production, legato, staccato, vibrato, and position changes. Simple studies and pieces.

113, 114. (2 each).

Expansion of left-hand facility and bow technique. Introduction of *spiccato* and continuation of training in tone production, vibrato, and position changes. Studies by Kayser and Wohlfahrt. Pieces by Purcell, Bach, and others.

115—538. (2 or 4 each).

STRING LITERATURE

For seminars at the doctoral level see "Music Performance."

541. Seminar in String Music of the Seventeenth and Eighteenth Centuries. (2).

542. Seminar in Chamber Music Literature. (2).

Analysis and performance of music forms for strings and keyboard instruments, 1700 to present.

543. Seminar in the String Quartets of Beethoven. (2).

THEORY

100. Basic Musicianship. (3).

Students will be placed in the various sections of this course on the basis of the results of the freshman theory entrance examinations. Since the sections go at varying speeds, the subsequent course will be either 136, 139, or 140.

111, 112. Keyboard Harmony. (1 each).

Elementary courses in functional keyboard performance, including drills in harmonic vocabulary, figured bass realization, transposition, sight playing, and fundamentals of improvisation. Keyboard proficiency equal to the completion of Piano 112 is prerequisite to Theory 111.

113. Survey of Freshman Keyboard Harmony. (1).

115. Honors in Keyboard Harmony. (1). Prerequisite: permission of instructor.

133. Survey of Freshman Theory. (2).

135, 136. Honors Course in Basic Musicianship. (3 each).

These courses together with Theory 235 cover material of 139, 140, 239, 240.

139, 140. Basic Musicianship. (3 each).

Integrated courses covering eighteenth- and nineteenth-century styles.

Gifted students will be given the opportunity to proceed faster by registering for Theory 135, 136, and 235.

211, 212. Keyboard Harmony. (1 each).

A continuation of 111, 112.

214. Survey of Sophomore Keyboard Harmony. (1).

216. Honors in Keyboard Harmony. *Prerequisite: permission of instructor.* (1).

234. Survey of Sophomore Theory. (2).

235. Honors Course in Basic Musicianship. (3).

See Theory 135, 136 above.

237. Introduction to the Theory of Music. (3).

For non-School of Music students only.

238. Introduction to Musical Analysis. (3).

For non-School of Music students only.

239, 240. Basic Musicianship. (3 each).

A continuation of 138, 139, and 140.

Theory 240 is a prerequisite for each of the following courses.

359. Advanced Skills and Techniques in Theory. (2).

371, 372. Instrumentation and Orchestration. (2 each).

405, 406. Special Courses. (2 each).

May be repeated for additional credit. See *Time Schedule* for title in any particular semester.

411, 412. Advanced Keyboard Skills. (2 each).

451, 452. Analysis of Music. (2 each).

453, 454. Contrapuntal Styles. (2 each).

455. J. S. Bach—Vocal Music. (2).

456. J. S. Bach—Instrumental Music. (2).

471, 472. Intermediate Orchestration. (2 each).

473, 474. Eighteenth-Century Counterpoint. (2 each).

475, 476. Sixteenth-Century Counterpoint. (2 each).

477. Radio and Television Music. (2).

479. Band Arranging and Transcription. (2).

480. Seminar in Arranging and Transcription. (2).

551. Style Analysis. (2).

553. Teaching of Theory. (3, S.S. 2).

571, 572. Advanced Orchestration. (2 or 4 each).

573, 574. Canon and Fugue. (2 each).

591. Directed Research. (2 or 4 each).

Preparation of master's thesis. May be repeated for a total of six hours credit.

VOICE

MAJOR COURSES

139, 140. (4 each).

Classification of the voice, principles of breath control, and vocalization for tone production. Repertory in Italian and Old English songs; two or more arias from standard oratorios.

239, 240. (4 each).

Continuation of technical studies for voice development. Additional songs from the Italian Anthology, songs in German and English, and recitatives and arias from standard oratorios.

339, 340. (4 each).

Advanced vocal technique and literature. Songs in French and further study of German lieder; songs by contemporary American, British, and Italian composers; songs in English by representative Russian composers; two opera arias in French or Italian.

439, 440. (4 each).

Advanced vocal technique and literature. Songs and arias to include the required languages leading to the preparation of the senior recital and covering a balanced list of periods and styles of composition.

539, 540. (4 each).

Advanced courses designed to extend the work in advanced repertory.

SECONDARY COURSES

219, 220. (2 each).

Open to students with no previous training. Classification of voice, breath control, and diction are stressed through technical exercises and appropriate song material. The amount of repertory will be left to the discretion of the instructor.

221, 222. (2 or 4 each).

Advanced vocal technique and literature for the development of the individual voice. The repertory will be left to the discretion of the instructor.

423-538. (2 or 4 each).

VOICE LITERATURE

For seminars at the doctoral level see "Music Performance."

455, 456. Opera—Repertory and Production. *Prerequisite: permission of voice instructor and opera director. (4).*

An intensive course in opera for voice majors including the study of and public performances of scenes and entire operas in the original languages and English translations.

467. Recitatives and Arias of Oratorios. (2).

489, 490. Interpretation of German Lieder. (2 each).

491. Interpretation of French, Italian, British, and American Songs. (2).

503. Principles of Vocal Repertory. *Prerequisite: graduate standing or senior standing with permission of instructor. (2).*

519. Teaching of the Voice (2).

Practical application of teaching techniques, diagnosis of vocal problems and their corrections, and survey of vocal literature for the teacher.

WIND INSTRUMENTS

MAJOR COURSES

BASSOON

139, 140. (4 each).

Tonal, articulation, and embouchure studies; continue reed-making. Studies and solos such as: Weissenborn, Duets; Oubradous, Enseignement complet du bassoon, Book I; Jancourt, Rêverie; Weber, Adagio from Concerto in F.

239, 240. (4 each).

Orchestral studies; whole tone scales; emphasis on alternate and "muffled" fingerings. Studies and solos such as: Milde, Concert Studies, Book II; Mozart, Concerto in B-flat, first movement; Hindemith, Sonata; Handel, Concerto in C minor.

339, 340. (4 each).

Special studies in clef reading, climbing scale, and chord patterns in all major and minor keys; orchestral studies. Student should be playing on reeds of own making. Studies and solos such as: Bozza, Daily Studies; Oubradous, Enseignement complet du bassoon, Book III; Saint-Saëns, Sonata.

439, 440. (4 each).

Emphasis on flow of tone and control of vibrato. Transposition and clef studies. Prepare public recital. Studies and solos such as: Giampieri, Daily Studies; Strauss, Orchestral Studies.

539, 540. (4 each).

Special studies for expression, drive, and control. Memorization of solos from orchestral repertory. Public recital. Studies and solos such as: Orefice, Studi di bravura; Milde, Concert Studies, Book III; Mozart, Concerto No. 2.

CLARINET

139, 140. (*4 each*).

Selected studies from 40 Studies, C. Rose; 32 Etudes, C. Rose; 40 Studies, Blancou; Book III, Langenus Method; Book II, Klose Method; selected solos, Recital Literature for Clarinet, Vol. I, II, Stubbins.

239, 240. (*4 each*).

Baermann Method, Book III; Etudes de genres et interprétation, Perier; 30 Caprices, Cavallini; selected solos, Vol. I, II, III, Recital Literature for Clarinet, Stubbins.

339, 340. (*4 each*).

Baermann Method, Book III; Dix-huit études de virtuosité, Jeanjean; selected solos, Recital Literature for Clarinet, Vol. I, II, III, IV, Stubbins; selections from standard sonata repertory.

439, 440. (*4 each*).

Dix-huit études de virtuosité, Jeanjean; Der Vollkommene Klarinetist, Book I, II, Rudolph Jettel; selected solos, Recital Literature for Clarinet, complete, Stubbins; selections from standard sonata repertory; recital preparation when appropriate.

539, 540. (*4 each*).

Survey of ensemble literature for the clarinet; preparation of recital program when appropriate; continued development of repertory.

CORNET OR TRUMPET

139, 140. (*4 each*).

Exercises emphasizing basic performance skills and applied music theory as found in Trumpet Technic by Lillya. Transposition Etudes. Solos such as Petite piece concertante by Balay.

239, 240. (*4 each*).

Material for developing technical proficiency such as Bousquet, Thirty-Six Etudes, and Clodomir, Vingt études. Solos such as L. Mozart, Concerto for Trumpet, and Tuthill, Sonata for Trumpet and Piano.

339, 340. (*4 each*).

Etudes by composers such as Brandt and Bozza. Orchestral excerpts. Solos such as Sonata for Trumpet by Kennan and Sonata for Trumpet by Hindemith.

439, 440. (*4 each*).

Review of fundamentals as set forth by Arban and Clarke. Survey of recital literature; transposition; band and orchestra excerpts; and preparation of recital program.

539, 540. (*4 each*).

EUPHONIUM

139, 140. (*4 each*).

Emphasis on the development of basic performance techniques. Memorization of all major and minor two-octave scales. Arban Method. Solos such as Guilmant, Morceau symphonique, and Barat, Morceau de concours.

239, 240. (*4 each*).

Bordogni-Rochut, *Melodious Etudes*, Book II; Kopprasch Studies, Book I. Solos such as Mozart, *Concerto for Bassoon* (K. 191), and Rossini, *Largo al factotum*.

339, 340. (*4 each*).

Bordogni-Rochut, *Melodious Etudes*, Book III; Kopprasch Studies, Book II. Solos such as Klengel-Falcone, *Concertino No. 1*, and Takacs, *Sonata*.

439, 440. (*4 each*).

Smith, *Top Tones*; Kreutzer-Schaefer, *10 Famous Etudes*; and Bach, *Unaccompanied Suites*. Solos such as Boccalari, *Fantasia di concerto*, and Hindemith, *Sonata for Bassoon*.

539, 540. (*4 each*).

Continued study of technique and style; survey of methods and recital literature; preparation of recital.

FLUTE

139, 140. (*4 each*).

Special studies for tone placement and ear training. Scales and chords in all rhythms and articulations; emphasis on warm-up routines for tonal development. Studies by Maquarre, Bach, and Andersen. Solos by Hindemith, Gaubert, Handel, Boccherini, and others.

239, 240. (*4 each*).

Special work on the piccolo. Orchestra studies and studies by Andersen, Karg-Elert, and Moysé. Solos by Bach, Grovlez, Griffes, Hanson, Ibert, and others.

339, 340. (*4 each*).

Further study of Andersen Etudes; Jeanjean. Solos by Bozza, Cassella, Piston, Schubert, Telemann, and others.

439, 440. (*4 each*).

Selected advanced studies. Sonatas and large-form composition by Dutilleux, Martinu, Milhaud, Prokofieff, and others. Completion of repertory and recital program requirements.

539, 540. (*4 each*).

Advanced study in technique and style. Works by Ibert, Jolivet, Nielsen, and others. Completion of repertory and recital program requirements.

FRENCH HORN

139, 140. (*4 each*).

Kopprasch studies, Book II. Special studies for flexibility, range, sonority, attack, and control. Transposition, clef reading, and muting. Development of cantabile style. Selected solos.

239, 240. (*4 each*).

French Horn Passages from *Orchestral Works*, Pottag; Mozart, *Concerto for Horn in D major*, No. 1. Selected solos such as Halevy-Gault, *Romance* from *L'Eclair*, and Tchaikovsky, *Andante cantabile*, from *Fifth Symphony*.

339, 340. (*4 each*).

Studies for French Horn, Book III, Alphonse. Transposition and clef reading. Solos: Strauss, *Fantasie*; Schumann, *Adagio and Allegro*; Mozart, *Concerto No. 2 in E-flat*; Goedecke, *Concerto*.

439, 440. (*4 each*).

Studies, Alphonse, Book IV; Michiels, *Twenty-four Etudes*; Saint-Saëns, *Morceau de concert*, Op. 94; Franz-Strauss, *Concerto No. 8*. Public recital.

539, 540. (*4 each*).

OBOE

139, 140. (*4 each*).

Special tone and scale studies. Etudes: Prestini, Barret. Solos such as: Handel, *Concerto No. 1*; Corelli, *Concerto*, and others. Sight reading, reed-making, studio class.

239, 240. (*4 each*).

Scales in all forms. Study of vibrato. Barret, 15 *Grand Studies*; solos by Telemann, Corelli, and others. Sight reading, reed making, studio class.

339, 340. (*4 each*).

Solos by Haydn, von Dittersdorf, Albinoni, Vivaldi, and works in the modern repertory. Reed making, studio class.

439, 440. (*4 each*).

Work on English horn. Prepare public recital. Solos: Mozart, *Concerto in C*; Goossens, *Concerto*; G. Jacobs, *Concerto*; Hindemith, *Sonata*. Completion of repertory. Reed making, studio class.

539, 540. (*4 each*).

Preparation of graduate recital. Study of baroque and modern repertory.

PERCUSSION

139, 140. (*4 each*).

Standard drum solos by Stone, Wilcoxon, Buggert, and Ludwig. Interpretation of the drum parts to the standard marches of Sousa, King, Goldman, Fillmore, and others. Special studies to facilitate the handling of the triangle, tambourine, castanets, cymbals, and other sound effects.

239, 240. (*4 each*).

Advanced studies from Gardner, Bower, Straight, Sternberg, and Wilcoxon. Begin bell and xylophone studies. Solos from Rubank marimba-xylophone collections. Special studies of claves, bongos, guiro, and maracas.

339, 340. (*4 each*).

Studies and keyboard repertory from Goldenberg method. Keyboard harmony, and three- and four-mallet techniques applied to the marimba and vibraphone. Standard violin and piano materials adapted for use on marimba. Tympani studies from Goodman text.

439, 440. (*4 each*).

Tympani repertory from Garner, Seitz, and Goodman. Arranging of Bach Chorals and Chopin Preludes as four-mallet solos for the marimba and vibraphone.

539, 540. (4 each).

Recital literature for tympani by Weinberger, Tcherepnin, Streigler, Pieranzovini, and others. Masterworks for marimba by Chopin-Musser. Mixed percussion: Bozza, Rhythmic; DePortes, Theme et variations; Tomasi, Concert asiatique.

SAXOPHONE**139, 140. (4 each).**

Studies in tonal development and intonation. Scale studies and various technical problems from *The Saxophonist's Workbook*, Teal; *Daily Exercises*, Terschak-Mule. Solos such as the Handel Sonatas; Concerto No. 1, Larson; Rhapsody for Saxophone, Coates.

239, 240. (4 each).

Continuation of technical studies such as Scales and Arpeggios, Books I-II-III, Mule; Concert Etudes, Labanchi-Iasilli; 24 Pieces, Bach-Carroyez. Solos such as Sonata, Billoti; Concerto in A-flat, Lapham; Sonata in G minor, Eccles-Rascher.

339, 340. (4 each).

Studies from Berbiguier, Terschak, and Soussman. Development of solo literature such as Sonata, Heiden; Concerto in E minor, Gurewich; Improvization and Caprice, Bozza; Introduction and Danse, Tomasi.

439, 440. (4 each).

Advanced technical studies and teaching methods. Caprices, Cavallini; Etudes, Bozza. Methods of extending the normal register. Solos such as Concertino da Camera, Ibert; Sonata, Op. 17, Krol; Rhapsodie for Saxophone, Vellones; Sonata, Op. 19, Creston; Concerto in E-flat, Glazounov.

539, 540. (4 each).

Recital literature and orchestral studies for saxophone. Adaptations of the saxophone to chamber music ensembles. Solos such as Concertino, Op. 17, Reuff; Concerto for Alto Saxophone, Tate; Concerto, Op. 26, Creston; Rhapsodie bretonne, Boriller.

TROMBONE**139, 140. (4 each).**

Exercises for the development of fundamental performance techniques. Memorization of all major and minor two-octave scales. Bordogni-Rochut Etudes; Blazhevich, Clef Studies. Solos such as Barat, Andante et allegro, and Guilmant, Morceau symphonique.

239, 240. (4 each).

Blazhevich, Clef Studies; Kopprasch Studies, Book I; Blazhevich, Concert Duets. Scale studies. Solos such as Jacob, Concerto, and Hindemith, Sonata.

339, 340. (4 each).

Blazhevich, Concert Duets; Kopprasch Studies, Book II; and Stoneberg, Orchestral Studies. Solos such as McKay, Sonata, and Milhaud, Concertino d'hiver.

439, 440. (4 each).

Masson, Douze études variées; Stoneberg, Orchestral Studies; Bach-Lafosse, Unaccompanied Suites. Solos such as Tomasi, Concerto, and Bloch, Symphony.

539, 540. (4 each).

Review of techniques; survey of methods and recital literature; preparation of recital.

TUBA

139, 140. (4 each).

Study and development of basic performance skills. Memorization of all major and minor two-octave scales. Tyrrell, Advanced Studies; Arban Method. Selected solos such as Painparé, Concertpiece, and Bach-Bell, Air and Bourrée.

239, 240. (4 each).

Kopprasch Studies, Book I; Arban Method. Selected solos such as Rossini, Una voce m'ha colpito, and Handel-Beethoven-Bell, Judas Maccabeus Variations.

339, 340. (4 each).

Kopprasch Studies, Book II; Bell, Routine of scales and arpeggios. Selected solos such as Mueller, Concert Music, and Lebedev, Concert Allegro.

439, 440. (4 each).

Blazhevich Etudes; orchestral literature; Bach, Unaccompanied Suites. Selected solos such as Hindemith, Sonata, and Vaughan Williams, Concerto.

539, 540. (4 each).

Review of fundamentals; survey of materials; preparation of recital program.

SECONDARY COURSES

BASSOON

111, 112. (2 each).

Special studies for development of embouchure, breath control, tone production, articulation, intervals; derivation of fingerings. All major and minor scales and chords through three sharps and three flats. Chromatic scale three octaves (B-flat to B-flat), simple combinations of articulation; simple ensembles with emphasis on intonation; fundamentals of reed-making. Studies and solos.

113, 114. (2 each).

Special studies for driving tone and control of pitch. Scales and chords through four sharps and four flats. Exercises in tenor clef. Study of reed-making. Studies and solos such as: Weissenborn, Studies, and Milde, Studies.

115, 116. (2 or 4 each).

Special studies for control of vibrato; continue reed-making. Studies and solos such as: Milde, Studies, and Pares, Daily Technical Studies.

217-538. (2 or 4 each).

CLARINET

111, 112. (2 each).

Fundamental problems involved in the playing of the clarinet. In Course 112 opportunities will be given to play simple ensemble and solo literature. The Study of the Clarinet, Stubbins (text).

113, 114. (2 each).

Fingered Scale Exercises, Langenus; 32 Etudes, Rose (selected); 40 Studies,

Rose (selected); Baermann Method, Book II (selected). Selected solos, First Recital Repertoire, Stubbins.

115, 116. (2 or 4 each).

The material of these courses is drawn from the etudes and solos listed under major courses, Clarinet 139.

217-538. (2 or 4 each).

CORNET OR TRUMPET

111, 112. (2 each).

Introduction to brass instrument playing. Tone production, attack and release, basic legato and staccato, and slurring. Care of instruments.

113, 114. (2 each).

Extension of pitch and dynamic range; song material as in Album of Concert Solos by Isaac and Lillya. Establishing of elementary stylistic principles.

115, 116. (2 or 4 each).

Etude material by composers such as Hering and Arban. Intermediate solos such as Barat, Orientale, and Fitzgerald, English Suite.

217-538. (2 or 4 each).

EUPHONIUM

111, 112. (2 each).

Beeler, Method for Euphonium. Introduction to basic performance skills. Selected solos such as Bach-Fitzgerald, Aria, and Giordani-Harvey, Caro mio ben.

113, 114. (2 each).

Gower-Voxman, Advanced Method, Vol. I. Selected solos such as Clerisse, Idylle, and Wagner-Roberts, Song to the Evening Star.

115, 116. (2 or 4 each).

Gower-Voxman, Advanced Method, Vol. II; Seidel, Twenty-four Studies. Selected solos such as Beach, Suite, and Ropartz, Andante et allegro.

217-538. (2 or 4 each).

FLUTE

111, 112. (2 each).

Special studies for development of embouchure, breath control, and articulation. Studies, solos, and simple ensembles.

113, 114. (2 each).

Scales and chords in all keys and registers. Studies by Andersen, Demersseman, Kohler. Selected solos from classical collections and concert albums.

115, 116. (2 or 4 each).

Studies by Andersen, Berbiguier. Solos by Brun, Debussy, Handel, Marcello, Mozart, and others.

217-538. (2 or 4 each).

FRENCH HORN

111, 112. (2 each).

Special studies for development of embouchure, breath control, articulation, and tone control. Primary studies for French horn including solos, duets, and trios, Horner.

113, 114. (2 each).

Horner studies. Special studies for development of low register and flexibility of embouchure. Solos selected from original compositions or arrangements by Kaufman, Boyd, Gounod, Brahms, and others.

115, 116. (2 or 4 each).

Extension of range. Transposition and clef reading. Studies by Kopprasch, Book I. Solos of the grade of: Bach, Awakening of Spring; Scheurer, Elegie; Mascagni, Siciliana from *Cavalleria Rusticana*; and others.

217-538. (2 or 4 each).

OBOE

111, 112. (2 each).

Special studies for development of embouchure, breath control, tone, and articulation. Simple ensembles; fundamentals of reed-making. Studies and solos.

113, 114. (2 each).

Major and minor scales and arpeggios up to four sharps and four flats played with a wide dynamic range. Continue reed-making. To complete requirements of Oboe 114 student must play jury exams on reed of his own making.

115, 116. (2 or 4 each).

Special studies for intervals, broken chords, and alternate fingerings. Studies and solos such as: Ferling, 48 Etudes, and Barret, Studies.

217-538. (2 or 4 each).

PERCUSSION

111, 112. (2 each).

Introduction to the basic rudiments of drumming. Roll phrasing and the adaptation of the rudiments to standard 2/4, 3/4, 4/4, and 6/8 exercises and street beats. Easy solos for snare drum from Harr Method, Books I and II.

113, 114. (2 each).

Rudiments of drumming. Easy exercises for bass drum, snare drum, and cymbals as a unit of the school band. Demonstration and study of care and handling of the tambourine, castanets, triangle, drums, cymbals, tympani, bells, and xylophone.

These courses are primarily designed for band directors and students who are not percussion majors but want to know more about drums and drumming.

115, 116. (2 or 4 each).

Review of the rudiments of drumming. Studies in Stone, Bower, Gardner, and the standard rudimental drum solos by Stone, Bower, Buggert, Ludwig, and Wilcoxon. Interpretation of the drum parts to the standard marches of Sousa, King, Goldman, Fillmore, and others. Special studies to facilitate the handling of the triangle, tambourine, castanets, cymbals, drums, and the Latin-American rhythm instruments.

217-538. (2 or 4 each).

SAXOPHONE

111, 112. (2 each).

Special studies on the development of embouchure, articulation, and fingering. Major and minor scales, arpeggios through three sharps and three flats. Emphasis on control of low tones. Studies and easy solos.

113, 114. (2 each).

Continuing studies for control in low and high registers. Completion of scales—major and minor at slow tempo marking. Solos such as Air from Suite in D, Bach-Lecson.

115, 116. (2 or 4 each).

Studies such as: 27 Virtuoso Studies, Bassi-Iasilli; 25 Daily Exercises, Klose. Solos such as: Piece en forme de habanera, Ravel, and 15 Preludes, Chopin.

217-538. (2 or 4 each).

TROMBONE

111, 112. (2 each).

Beeler, Method for the Trombone. Introduction to basic trombone techniques. Ensembles. Selected solos such as Bach-Fitzgerald, Aria, and Bakaleinikoff, Meditation.

113, 114. (2 each).

Gower-Voxman, Advanced Method, Vol. I; Seidel, Twenty-four Studies. Selected solos such as Porret, Concertino No. 7, and Gounod, Dio possente.

115, 116. (2 or 4 each).

Gower-Voxman, Advanced Method, Vol. II. Mueller Studies, Book III. Selected solos such as Johnson, Lyric Interlude, and Ropartz, Andante et allegro.

217-538. (2 or 4 each).

TUBA

111, 112. (2 each).

Beeler, Method for the Tuba; Getchell, First Book of Practical Studies. Emphasis centered on tone production, attack and release, articulation, slurring, and embouchure development. Solos such as Huber-Price, Theme from Concertino No. IV, and Benson, Arioso.

113, 114. (2 each).

Gower-Voxman, Advanced Method, Vol. I; Getchell, Second Book of Practical Studies. Solos such as Beach, Lamento, and Gounod, Dio possente from *Faust*.

115, 116. (2 or 4 each).

Gower-Voxman, Advanced Method, Vol. II; VanderCook, Etudes. Solos such as Handel-Harvey, Honor and Arms, and Sowerby, Chaconne.

217-538. (2 or 4 each).

WIND AND PERCUSSION

101. (2).

A general introduction to wind and percussion instruments for choral majors and string principals only.

WINDS

109. General Introduction to Wind Instruments. (1).

WIND LITERATURE

See Music Education 472.

For seminars at the doctoral level see "Music Performance."

General Information

RULES AND REGULATIONS

Absences. Whenever a student has been absent for three weeks or more from any one course he automatically forfeits credit in the course unless proper arrangements are made among the student, the instructor, and the Associate Dean of the School of Music.

A student who is absent from *all* his courses for more than three weeks will be required to withdraw for the rest of the semester unless, upon the recommendation of his instructors, he is given special permission to continue all or part of his courses. Application for such special permission should be made to the Associate Dean of the School of Music.

Grades. The reports of students enrolled in this School will be made in accordance with the following system of marking. Each hour of credit is valued in points as follows:

A excellent	4 honor points per hour of credit
B good	3 honor points
C fair	2 honor points
D poor	1 honor point
E not passed	
I incomplete	
X absent from examination	

Incompletes. Students receiving a mark of I or X in a course must make up the deficiency within the first four weeks of the next semester in residence.

Rules of Conduct. For regulations concerning student conduct, operation of motor vehicles by students, participation in public activities, probation, suspension, extramural activities, and discipline see the bulletin *General Information*.

REGISTRATION

All students should report first of all to the School of Music offices in Lane Hall to pick up materials and detailed instructions for registration.

For new students registration procedures begin one week before the opening of classes. Prior to consultation with advisers new students must take proficiency examinations in applied music and basic musicianship (theory and ear-training). New students who wish to transfer credit earned elsewhere in conducting, keyboard harmony, and music education must take proficiency examinations in these subjects also. The final evaluation

of all transfer credit will usually be made before the end of the first semester or second summer session of residence.

Previously enrolled students who have already taken all required proficiency examinations should plan to see their advisers at least twenty-four hours prior to the time set in the Registration Schedule for admission to the gymnasiums (for classification and payment of fees).

MUSICAL ACTIVITIES

Programs of solo and ensemble music are presented by the faculty and degree-program students in the departments of the School of Music and by occasional guests.

Stanley Quartet. Named in honor of the late Dr. Albert A. Stanley, Professor of Music and Director of the University School of Music from 1889 to 1922, and composed of members of the string department faculty. This is the official string quartet-in-residence at the University. The Quartet annually presents six or seven public concerts on the campus. Programs include the standard repertory and outstanding contemporary works. Each year the University awards to a distinguished composer the commission for a chamber music work for first performance by the Stanley Quartet. Commissions, financed from the Oliver Ditson Endowment Fund, have been awarded as follows:

1949	Piano Quintet	Walter Piston
1950	String Quartet	Quincy Porter
1951	Piano Quintet	Wallingford Riegger
1952	String Quartet	Darius Milhaud
1953	String Quartet	Heitor Villa-Lobos
1954	String Quartet	Robert Palmer
1957	String Quartet	Leon Kirchner
1958	String Quartet	Rodolfo Halffter
1960	String Quartet	Elliott Carter
1962	String Quartet	Ulysses Kay
1963	String Quartet	Roberto Gerhard

Opera. As an integral part of training for voice majors, courses in opera production are offered. In co-operation with the Department of Speech at least one major work is presented each year in full stage performance with orchestral accompaniment in Lydia Mendelssohn Theater. In addition, several programs of scenes from operas covering the English, Italian, German, and French repertory are given.

University Symphony Orchestra. The University of Michigan Symphony Orchestra gives regular programs on the campus and elsewhere of major works from the entire range of symphonic literature. In addition, the Symphony Orchestra participates in certain operatic productions and

concerto concerts. Mature performers from other colleges and schools of the University are eligible without extra fee.

String Orchestra. An organization for advanced string players interested in the study and performance of seventeenth- and eighteenth-century music. A public concert is presented in the fall semester.

University of Michigan Bands. Bands have played an integral role on campus at The University of Michigan for almost a century. The Symphony Band is world renowned and was chosen by the United States Department of State to represent our country abroad during the spring semester of 1961 when a three-month concert tour of Russia, Poland, and Near-Eastern countries was conducted as a part of the President's Inter-cultural Exchange Program. The Marching Band is recognized throughout the country for its spectacular performances on the gridiron. The Varsity Band plays annually for a variety of campus activities. Mature performers from other colleges and schools of the University are eligible without extra fee.

University Choir. The University of Michigan Choir performs a repertoire of sacred and secular choral music selected from the finest compositions of classic and contemporary composers. Members of the choir may participate in a wide variety of other choral ensembles for the performance of madrigals, operatic choruses, and other special forms of vocal music. Mature performers from other colleges and schools of the University are eligible without extra cost.

University Men's Glee Club. This organization is in constant demand in Ann Arbor and elsewhere. Alumni groups arrange concert tours which cover a wider area for the club. Frequent broadcasts are made from the University. Open to all University students who can qualify.

Collegium Musicum. The University of Michigan Collegium Musicum is an organization dedicated to performance of old or little-known music.

University Musical Society Concerts. Several series of concerts are presented annually which bring to Ann Arbor soloists and ensemble organizations of international reputation. These programs give the music student unusual opportunities to increase his knowledge of music literature and to receive valuable inspiration through performances of the highest professional caliber. Five or six of the major orchestras are heard annually in ten or more concerts; dance and operatic groups and vocal and instrumental soloists make up the list of participating artists. Bulletins of the several series—Choral Union, Extra, *Messiah*, Chamber Arts, May Festival—are available from the office of the University Musical Society, Burton Memorial Tower.

University Choral Union. The University Choral Union, maintained by the University Musical Society, has a membership of over three hundred and is one of the largest and oldest student music organizations in

the world. The Choral Union participates in performances of *The Messiah* at the Christmas season and in several programs during the annual May Festival. Candidates for admission must try out during the first week of the academic year.

FEES AND OTHER EXPENSES

SEMESTER FEES

	MICHIGAN RESIDENTS	NON- RESIDENTS
Freshman-Sophomore	\$140	\$450
Junior-Senior	155	480
Graduate (M.Mus.)	175	500

Semester fees are payable prior to registration, at registration, or in installments during the semester. The number and dates of the installments will be specified in advance for each semester. (See continuing enrollment deposit statement under Requirements for Admission.)

The fees and charges imposed by the University, the conditions for admission, and the requirements for graduation are subject to change by the Board of Regents without notice.

Foreign students who are not provided with health-hospitalization insurance by their sponsors are required to purchase Student Group Health Insurance. The cost of this coverage (approximately \$25) *must* be paid at the time of registration. This coverage extends for a full twelve months.

Means of Payment. To cover expenses students are urged to provide themselves with money orders or bank drafts. For the convenience of students the Cashier's office will cash or accept money orders or bank drafts in payment of semester or other University fees. Personal checks will not be cashed but will be accepted for the exact amount of fees.

The Semester Fee for Full-time Students is a comprehensive, single fee which includes:

1. University tuition which covers class instruction, use of libraries, admission to certain athletic events, membership in the Michigan Union or Michigan League, and medical attention from the University Health Service in accordance with the regulations of the Health Service.

2. One and one-half hours of weekly instruction or its equivalent in applied music for freshman and sophomore students and one hour of weekly instruction or its equivalent in applied music for junior, senior, or graduate students.

3. A minimum use of practice facilities for approximately two hours daily for each major course in applied music and one hour daily for each secondary course.

There is no matriculation or entrance fee, and diplomas and special certificates (except for duplicate diplomas and certificates) are furnished without charge.

REDUCED PROGRAM FEES

	MICHIGAN RESIDENTS	NON- RESIDENTS
a) Freshman-Sophomore		
1. One through three hours	\$ 60	\$190
2. Four or five hours	85	285
3. Six or seven hours	115	365
4. Eight hours and over	Full program fee	
b) Junior-Senior		
1. One through three hours	\$ 65	\$205
2. Four or five hours	90	290
3. Six or seven hours	120	385
4. Eight hours and over	Full program fee	
c) Graduate (M.Mus.)		
1. One through three hours	\$ 75	\$215
2. Four or five hours	110	315
3. Six or seven hours	145	415
4. Eight hours and over	Full program fee	

APPLIED MUSIC FEES

1. *Students enrolled in the School of Music in degree programs.* The School of Music fees given above for full and reduced programs cover instruction in applied music and practice facilities equivalent to curriculum requirements.

2. *Students enrolled in another unit of the University.* Students who have paid the appropriate fee in another unit of the University may elect courses in applied music on payment of the following additional fees:

a) \$50 for each two-hour course

b) \$100 for each four-hour course

3. *Nondegree students.* Students not enrolled in a degree program in any unit of the University may elect courses in the School of Music, including courses in applied music, on payment of the following fees:

a) The part-time fee in the School of Music appropriate to the total hours elected, and, if instruction in applied music is elected,

b) \$80 for each two-hour course, or

c) \$150 for each four-hour course

Locker Fee. Lockers for storage of music and other student belongings are available at the School of Music at a rental of \$5.00 for the academic year or any part thereof. Students must provide their own locks and keys. A limited number of especially large lockers suitable for storage of cellos,

etc., are available. There is no charge for lockers during the summer session.

Gymnasium Fee. A charge of \$2.00 per semester is made for the rental of a locker in Waterman Gymnasium or the Sports Building. These fees are payable at the respective buildings, and upon return of the last towel and presentation of receipt at the end of the semester, fifty cents is refundable.

Refund of Fees. Any refund of fees will be made according to the fixed schedule which is explained in the bulletin *General Information*.

Indebtedness to the University. Proper observance of financial obligation is deemed an essential of good conduct, and students who are guilty of laxness in this regard to a degree incompatible with the general standards of conduct shall be liable to disciplinary action by the proper University authorities. Students shall pay all accounts due the University in accordance with regulations set forth for such payments by the Vice-President in charge of Business and Finance.

Living Expenses and Student Self-help. Request information from the Office of Student Affairs, 1011 Student Activities Building, University of Michigan.

Services to Veterans. The University of Michigan welcomes veterans and provides information, guidance, and counseling to those eligible for educational benefits under Public Laws 550, 634, and 894. Veterans who are eligible for and elect to receive education and training benefits while attending the University are required to register with the Office of Veterans Affairs, 2059 Administration Building, as an integral part of the registration process.

ASSISTANTSHIPS, AWARDS, FELLOWSHIPS, LOANS, AND SCHOLARSHIPS

Financial assistance of many different kinds is available to students enrolled in the Undergraduate Division or the Graduate Division of the School of Music as well as to music students enrolled in the Horace H. Rackham School of Graduate Studies. In general, requests for application forms and additional information should be made to one of the associate deans of the School of Music as follows:

1. Students now enrolled or seeking enrollment in the Undergraduate Division or the Graduate Division (M.Mus.) of the School of Music should apply to John A. Flower, Associate Dean, School of Music, 116 Lane Hall.

2. Students now enrolled or seeking enrollment in the Horace H. Rackham School of Graduate Studies (M.A. or doctor's degree) should apply to Allen P. Britton, Associate Dean, School of Music, 106 Lane Hall.

The deadline for receipt of complete applications for School of Music scholarship awards is March 1 of each year. The deadline for receipt of complete applications for Rackham graduate fellowships (i.e. scholarships) is February 15 of each year. Applications received after these dates will still be considered for technical assistantships and teaching fellowships. Further information pertinent to specific kinds of financial assistance is given below.

University of Michigan Regents-Alumni Scholarships. Open to graduating seniors in the accredited high schools of Michigan who are entering the University as freshmen. The stipends for the scholarships are variable and range from a \$50 entrance award to a maximum of double the semester fees with most awards being at the semester-fee level. The scholarships are renewable for the normal duration of the student's undergraduate program if an academic average satisfactory to the Scholarship Committee is maintained. To ensure consideration, applications should reach the University by December 20. Interested seniors should see their high school principal during the first semester of the senior year for additional information and the application material.

Oliver Ditson Scholarships. A number of scholarships in all fields of music are available to students in the School of Music through the income from the bequest of the late Oliver Ditson. Bases for these scholarships are general worthiness and need. To be eligible the applicant must have been admitted as a full-time student in the School of Music.

General University Scholarships. Funds for these scholarships are made available for the purpose of aiding students in the payment of their fees or may be used in whatever manner the Committee on Scholarships and Awards sees fit. Bases for these scholarships are general worthiness and need. To be eligible the applicant must have been admitted as a full-time student in the School of Music.

The Earl V. Moore Scholarships. Established in 1960 by alumni and friends of the School of Music to honor Dean Emeritus Earl V. Moore's long and distinguished service to music and The University of Michigan. Junior, senior, and graduate students who plan to pursue further study in the School of Music are eligible. The awards are made on the basis of outstanding achievement and established instance of need. One or more are awarded annually.

Teaching Fellowships. Open for the most part only to doctoral students enrolled in the Horace H. Rackham School of Graduate Studies but occasionally awarded to outstanding candidates for the master's degree enrolled in the School of Music. Approximately forty teaching fellows are appointed each year and serve in the following fields: composition, basic musicianship, music education, keyboard harmony, music literature, organ, piano, strings, voice, and wind instruments. Teaching fellows are usually appointed for from one-third to one-half time at a salary commensurate

with the appointment and the individual fellow's teaching experience. Appointment entitles the student and his dependents to resident fee status.

Graduate Fellowships. Available only to students enrolled in the Horace H. Rackham School of Graduate Studies, these fellowships are, in fact, scholarships and involve no teaching or other duties. The deadline for receipt of completed applications is February 15, and announcement of awards is made on April 1.

Technical Assistantships. Open to students enrolled in the School of Music. These involve work as librarians, equipment managers, and accompanists as well as performers in the Honors Quartet and other ensembles. Approximately twenty assistantships are granted each year.

University Loans. Available to all currently enrolled students. Application should be made to the Office of Student Affairs, 2011 Student Activities Building.

National Defense Education Act Loans. Available to all students on a competitive basis. Special priority is given students in music education and others seeking careers as teachers. Applications may be made after regular admission has been obtained. Special forms may be obtained from Karl D. Streiff, Office of Student Affairs, 2011 Student Activities Building.

James L. Babcock Scholarship. Established in 1912 by bequest of James L. Babcock, this scholarship is usually awarded to a graduating senior on a basis of general achievement and character. The recipient must have completed two years of study in the School of Music.

Joseph Brinkman Memorial Scholarship Award. Established in 1961 by his wife and friends as a permanent memorial to Joseph Brinkman, Professor of Piano and head of the Piano Department in the School of Music from 1943 until his death in 1960. Graduate piano majors who have proven themselves as outstanding performers and show exceptional promise for professional work in the field of piano are eligible. Students receiving the award are expected to be enrolled for the following academic year. The recipient is selected by the Committee on Scholarships and Awards upon recommendation from the Piano Department. One award is granted annually.

Chamber Music Society Scholarship. Established by the Chamber Music Society of Ann Arbor and given annually to the student making the greatest contribution in the field of chamber music.

Delta Omicron Scholarship or Loan Fund. Established by the Delta Omicron musical sorority.

Albert Lockwood Memorial Scholarship. Established in 1934 by a group of friends and admirers as a permanent memorial to Albert Lockwood, head of the piano department from 1900 to 1933. This scholarship is awarded to an outstanding pianist, usually a senior.

Mu Phi Epsilon Award. Furnished annually by Gamma Chapter of Mu Phi Epsilon and given to the sophomore woman who, having earned not less than forty-five credit hours in residence, has maintained the highest general average.

Pi Kappa Lambda Freshman Award. Established in 1951 by Chi Chapter of Pi Kappa Lambda and granted to the freshman student who attains the highest grade-point average. One award is made annually, and the winner is selected by the Committee on Scholarships and Awards of the School of Music.

Pi Kappa Lambda Scholarship. Furnished annually when a suitable candidate is available by Chi Chapter of Pi Kappa Lambda. The award is made to a graduate student in the School of Music in recognition of achievement in scholarship with special emphasis on distinguished accomplishment in thesis, recital, or composition.

Theodore Presser Foundation Scholarships. These scholarships are awarded annually by the Theodore Presser Foundation of Philadelphia to outstanding students in the School of Music who have done at least one third of their work in academic subjects. Preference is given to those who expect to become teachers.

John Reed Composition Award. Established by the First Baptist Church in 1957. This deed of trust provides an annual award for the best anthem of moderate length, suitable for use in a worship service. All students in the School of Music are eligible.

Sigma Alpha Iota Award. Furnished annually by Alpha Chapter of Sigma Alpha Iota and given to a junior woman who has earned thirty hours of credit in residence in recognition of scholarship, personality, and general ability. The award is \$50. A second Sigma Alpha Iota Award is made to a senior woman from Alpha Chapter who graduates with the highest academic average. This award is signed by the National President of Sigma Alpha Iota, the Dean of the School of Music, and the President of Alpha Chapter of Sigma Alpha Iota. No stipend is attached.

Stanley Medal. Highest award is the Stanley Medal, struck in honor of the long and distinguished service of Dr. Albert A. Stanley as Musical Director of the University School of Music and Professor of Music in The University of Michigan. One may be presented annually to that senior who has done outstanding work in practical music and who has, in general, proved himself to be worthy of the highest honor the School of Music can bestow. The recipient must have had two years of residence study in the School of Music. No stipend is attached. This medal has been awarded as follows:

1923 Mary Maxwell Handley (Piano)	1949 Mary Gilma Kelly (Cornet)
1927 Pauline Kaiser Maxwell (Violin)	1950 No award
1930 Dalies Frantz (Piano)	1951 Theodore Johnson (Violin)
1931 Rexford C. Keller (Organ)	1952 Patricia Joy Arden (Piano)
1932 Stanley Fletcher (Piano)	Jerome Jelinek (Cello)
1933 James C. Pfohl (Organ)	1953 No award
1934 Sarah Lacey Nichols (Piano)	1954 Mary Hutchins Coffey
1935 Ruby Peinert Marsh (Cello)	(Music Education)
1936 Margaret K. Wilson (Piano)	1955 Jerald Bilik (Music Education)
1937 Jane Rogers (Voice)	Camilla Heller (Cello)
1938 Janet McGaughey (Piano)	1956 William Doppmann (Piano)
1939 Grace Elizabeth Wilson (Piano)	1957 Emerson Head
1940 Kathleen Rink Bosch (Piano)	(Music Education)
1941 No award	1958 Nelita Ann True (Piano)
1942 John Wolaver (Piano)	1959 Lawrence Page Hurst
James Wolff (Piano)	(String Instruments)
1943 No award	1960 Karen Louise Taylor (Piano)
1944 Violet Oulbegian (Theory)	1961 Elizabeth Lichty (Viola)
1945 Ruby Kuhlman Ryan (Piano)	Donald Tison (Wind Instruments)
1946 Marilyn Mason Brown (Organ)	1962 William Eugene Hettrick III
1947 Kathryn Karch Loew (Organ)	(Music Education)
1948 Emil Raab (Violin)	1963 Carol Angela Teti (Organ)

Elsa Gardner Stanley Scholarship. Established in memory of Elsa Stanley, an alumna and former member of the faculty of the School. It is awarded on the basis of service and ability.

University Band Merit Award. Regularly enrolled members of the Marching or Symphony bands are selected on the basis of audition and interviews. The award is \$40 for participation in the Marching Band for the football season and an additional \$75 for participation in the Symphony Band for the school year; first-chair players of the Symphony Band receive \$150 in lieu of the \$75. To maintain eligibility for this award the student must earn an average grade of C (2.0) during each semester of participation. The award is granted at the end of the school year.

Kenneth Van der Heuvel Memorial Scholarship. Established by Mrs. Gertrude Van der Heuvel in memory of her husband Kenneth Van der Heuvel, oboist and distinguished alumnus of the School of Music. One is awarded annually to an undergraduate oboist who demonstrates exceptional promise in performance.

John Wolaver Memorial Scholarship. Established by friends of the late John Wolaver, distinguished pianist, teacher, and graduate of the School of Music. Eligibility is extended to all piano majors in the School of Music who show evidence of superiority both as pianists and students in general. One award is made annually.

Miscellaneous Scholarships. A few miscellaneous scholarship awards not under the jurisdiction of the School of Music or the Graduate School are available to certain types of students. Consult the bulletin *University Scholarships, Fellowships, and Prizes* or write to the Committee on University Scholarships, 2011 Student Activities Building.

FACILITIES

BUILDINGS

The administrative offices of the School of Music are located in Lane Hall. Instruction in music is carried on in Lane Hall, the Maynard Street Building, Hill Auditorium, Harris Hall, Burton Memorial Tower, and Angell Hall. Several other University buildings are utilized for concerts, lectures, and practice facilities.

Beginning with the summer session of 1964, most instruction will be transferred to a new building presently being constructed on the North Campus at a cost exceeding \$4,500,000. Designed by the noted architect Eero Saarinen, the completely soundproof and air-conditioned structure will contain two rehearsal-concert halls, fifty-five private teaching studios, fifty class and seminar rooms, and nearly 200 practice rooms.

Libraries. The University Library contains more than two million volumes. A part of the music collection is housed in a departmental music library in Burton Tower. The collection contains orchestral and vocal scores; complete editions of most of the masters; scientific, critical, biographical, and historical books on music; and files of journals, magazines, and papers pertinent to the field. In addition the library contains several thousand phonodiscs and tape recordings.

Stellfeld Collection of Books and Music. In the spring of 1954 the Board of Regents authorized the purchase of one of the most significant private collections in Europe of printed books on music, periodicals, and pamphlets; music in manuscript and in printed and photostat form. The collecting of these items was the life work of a distinguished Belgian jurist, J. A. Stellfeld. It was housed in his mansion in Antwerp, and after his death in 1952 the library came onto the open market. Its availability was discovered by Professor Louise Cuyler who was in residence in Brussels for the academic year of 1953-54 on a Fulbright research project.

The Collection is unusually rich in music and printed books prior to 1800; special reference is given to the concentration of materials printed between 1750 and 1800.

Through the acquisition of this Collection, The University of Michigan became an important center for musicological research; the resources of the music library are also enhanced for the study of music history and

theory. The Stellfeld Collection represents one of the most important purchases by an American university library in recent decades and will be available for student use as soon as the process of cataloging the thousands of items has been completed.

Stearns Collection. The unique collection of over 1,400 musical instruments brought together by Frederick Stearns of Detroit and presented to The University of Michigan is on exhibition in Hill Auditorium, second floor.

Frieze Memorial Organ. In 1894 the famous Columbian organ, built for the Chicago World's Fair by Ferrand and Votey, was purchased by The University of Michigan and was installed in University Hall as a memorial to Professor Henry Simmons Frieze, the first president of the University Musical Society. In 1913 it was moved to Hill Auditorium, which had just been completed. This organ, in 1926, was replaced by a large, new organ, constructed by the E. M. Skinner Organ Company of Boston, and was rededicated as a memorial to Professor Frieze.

In 1954-55 the Frieze Memorial Organ was rebuilt and reconditioned by the Aeolian-Skinner Organ Company of Boston. Tonal changes were made, the mechanism was renewed, and a new console installed.

Bureau of Appointments. The University maintains a Bureau of Appointments and Occupational Information to assist students in obtaining positions.

Professional Fraternities and Sororities. Chapters of Sigma Alpha Iota and Mu Phi Epsilon, music sororities for women, and of Phi Mu Alpha-Sinfonia, music fraternity for men, are chartered to the School of Music. A chapter of Kappa Kappa Psi (band fraternity for men) and a chapter of Tau Beta Sigma (band sorority for women) are also chartered in the University. Students are eligible on an honors basis to Pi Kappa Lambda, Phi Beta Kappa, and Phi Kappa Phi.

SUMMER SESSION

COURSES AT ANN ARBOR

The summer session (eight weeks) comprises an important part of the annual program of the School of Music. Courses are offered in all departments. The faculty is augmented by several guest professors during each session. The Band Conductors Workshop and the conferences for piano and string teachers are some of the noncredit music offerings. In addition many concerts are presented by students and members of the faculty.

For further information in regard to summer session courses see the *Summer Session Announcement*.

COURSES AT NATIONAL MUSIC CAMP AT INTERLOCHEN

The School of Music offers a rich variety of courses each summer at the National Music Camp, situated at beautiful Interlochen, Michigan, in the heart of Michigan's vacation land fifteen miles southwest of Traverse City. Graduate and undergraduate credit may be earned in applied music, composition, ensemble, music education, music literature, theory, and in the following nonmusic fields: art, camp counselor education, dance, and speech.

Detailed information concerning faculty, courses of instruction, and registration procedures is contained in the *Announcement* of the University of Michigan Division of the National Music Camp, which may be obtained by addressing Professor Eugene Troth, Director, 216 Lane Hall, University of Michigan, Ann Arbor, Michigan.

Registration Schedules, 1963-1964

Each of the following groups of students is allotted a definite period for admission to the gymnasiums for registration. Please complete all registration forms distinctly and according to directions on the forms *before you enter the gymnasium*. Elections should be approved previously as specified in the *Announcement* of your school or college.

FALL SEMESTER, 1963

WEDNESDAY AUGUST 28, 1963

A.M.	P.M.
8:00-8:10 Grj	1:00-1:10 Joh
8:10-8:20 Gud	1:10-1:20 Jones, K.
8:20-8:30 Hae	1:20-1:30 Kan
8:30-8:40 Halm	1:30-1:40 Keb
8:40-8:50 Han	1:40-1:50 Kes
8:50-9:00 Harb	1:50-2:00 Kir
9:00-9:10 Harris	2:00-2:10 Knj
9:10-9:20 Hatd	2:10-2:20 Koti
9:20-9:30 Hea	2:20-2:30 Kruh
9:30-9:40 Heit	2:30-2:40 Lamj
9:40-9:50 Henm	2:40-2:50 Lawrf
9:50-10:00 Hes	2:50-3:00 Leit
10:00-10:10 Hlff	3:00-3:10 Lewj
10:10-10:20 Hoe	3:10-3:20 Liu
10:20-10:30 Holm	3:20-3:30 Luch
10:30-10:40 Hon	3:30-3:40 M(a)cClem
10:40-10:50 Hox	3:40-3:50 M(a)cGj
10:50-11:00 Huj	3:50-4:00 M(a)cMb
11:00-11:10 Hus	4:00-4:10 Malm
11:10-11:20 Ino	4:10-4:20 Marsh
11:20-11:30 Jacl	4:20-4:30 Mau
	-Jones, J.
	-Kan
	-Keb
	-Kes
	-Kir
	-Koth
	-Krug
	-Lami
	-Lawre
	-Leis
	-Lewi
	-Lit
	-Luca
	-M(a)cClef
	-M(a)cGi
	-M(a)cMa
	-Mall
	-Marsg
	-Mat
	-Mere

THURSDAY AUGUST 29, 1963

A.M.	P.M.
8:00-8:10 Merf	1:00-1:10 Sa
8:10-8:20 Miller, F.	1:10-1:20 Sarh
8:20-8:30 Mj	1:20-1:30 Schm
8:30-8:40 Morp	1:30-1:40 Schwartz, S.
8:40-8:50 Munn	1:40-1:50 Sene
8:50-9:00 Nay	1:50-2:00 Shem
9:00-9:10 Nf	2:00-2:10 Siem
9:10-9:20 Oa	2:10-2:20 Sl
9:20-9:30 Opb	2:20-2:30 Smith, M.
9:30-9:40 Pal	2:30-2:40 Som
9:40-9:50 Patt	2:40-2:50 Stai
9:50-10:00 Perf	2:50-3:00 Stev
10:00-10:10 Picl	3:00-3:10 Stp
10:10-10:20 Poq	3:10-3:20 Suq
10:20-10:30 Prj	3:20-3:30 Tat
10:30-10:40 Ran	3:30-3:40 Thomq
10:40-10:50 Reid, T.	3:40-3:50 Tomm
10:50-11:00 Richb	3:50-4:00 Tuq
11:00-11:10 Robertso	4:00-4:10 Vander
11:10-11:20 Roq	4:10-4:20 Ves
11:20-11:30 Rou	4:20-4:30 Wald
	-Sarg
	-Sbl
	-Schwartz, R.
	-Scnd
	-Shel
	-Siel
	-Sk
	-Smith, L.
	-Sol
	-Stah
	-Steu
	-Sto
	-Sup
	-Tas
	-Thomp
	-Toml
	-Tup
	-Vandeq
	-Ver
	-Walr
	-Wark

FRIDAY AUGUST 30, 1963

A.M.	P.M.
8:00-8:10 Warl	1:00-1:10 Brb
8:10-8:20 Webf	1:10-1:20 Brown, G.
8:20-8:30 Wes	1:20-1:30 Bud
8:30-8:40 Wi	1:30-1:40 Bus
8:40-8:50 Willj	1:40-1:50 Can
8:50-9:00 Wold	1:50-2:00 Cas
9:00-9:10 Wrf	2:00-2:10 Cj
9:10-9:20 Za	2:10-2:20 Coo
9:20-9:30 Aa	2:20-2:30 Crp
9:30-9:40 Ald	2:30-2:40 Db
9:40-9:50 Andersf	2:40-2:50 Dio
9:50-10:00 Arl	2:50-3:00 Duq
10:00-10:10 Bac	3:00-3:10 Eo
10:10-10:20 Bar	3:10-3:20 Fim
10:20-10:30 Bat	3:20-3:30 Frao
10:30-10:40 Bed	3:30-3:40 Gav
10:40-10:50 Bens	3:40-4:00 Goldm
10:50-11:00 Bet	
11:00-11:10 Blad	
11:10-11:20 Bof	
11:20-11:30 Bou	
	-Brown, F.
	-Buc
	-Bur
	-Cant
	-Cac
	-Ci
	-Con
	-Cro
	-Daz
	-Din
	-Dup
	-En
	-Fil
	-Fran
	-Gau
	-Gold
	-Gri

SATURDAY AUGUST 31, 1963

Any student may register from 9:00 to 11:00 A.M. Saturday registration is inadvisable, however, as many sections of course offerings will be closed.

SPRING SEMESTER, 1964

MONDAY
JANUARY 13, 1964

A.M.		P.M.	
8:00-8:10	Lawrf	1:00-1:10	Merf
8:10-8:20	Lef	1:10-1:20	Miller, F.
8:20-8:30	Leit	1:20-1:30	Mj
8:30-8:40	Levj	1:30-1:40	Morp
8:40-8:50	Lewj	1:40-1:50	Munn
8:50-9:00	Lio	1:50-2:00	Nay
9:00-9:10	Liu	2:00-2:10	Nf
9:10-9:20	Lov	2:10-2:20	Oa
9:20-9:30	Lub	2:20-2:30	Opb
9:30-9:40	Luu	2:30-2:40	Pal
9:40-9:50	M(a)cClem	2:40-2:50	Patt
9:50-10:00	M(a)cDoo	2:50-3:00	Perf
10:00-10:10	M(a)cGj	3:00-3:10	Picl
10:10-10:20	M(a)cLb	3:10-3:20	Poq
10:20-10:30	M(a)cMb	3:20-3:30	Prj
10:30-10:40	Mai	3:30-3:40	Ran
10:40-10:50	Malm	3:40-3:50	Reid, T.
10:50-11:00	Marb	3:50-4:00	Richb
11:00-11:10	Marsh	4:00-4:10	Robertso
11:10-11:20	Musb	4:10-4:20	Roq
11:20-11:30	Mau	4:20-4:30	Rou
	-Lee		-Miller, E.
	-Leis		-Miz
	-Levi		-Moro
	-Lewi		-Munm
	-Lin		-Nax
	-Lit		-Ne
	-Lou		-Nz
	-Luca		-Opa
	-Lut		-Pak
	-M(a)cClef		-Pats
	-M(a)cDon		-Pere
	-M(a)cGi		-Pick
	-M(a)cLa		-Pop
	-M(a)cMa		-Pri
	-Mah		-Ram
	-Mall		-Reid, S.
	-Mara		-Richa
	-Marsg		-Robertsn
	-Masa		-Rop
	-Mat		-Rot
	-Mere		-Rz

TUESDAY
JANUARY 14, 1964

A.M.		P.M.	
8:00-8:10	Sa	1:00-1:10	Warl
8:10-8:20	Sarh	1:10-1:20	Webf
8:20-8:30	Schm	1:20-1:30	Wes
8:30-8:40	Schwartz, S.	1:30-1:40	Wl
8:40-8:50	Sene	1:40-1:50	Willj
8:50-9:00	Shem	1:50-2:00	Wold
9:00-9:10	Siem	2:00-2:10	Wrl
9:10-9:20	Sl	2:10-2:20	Za
9:20-9:30	Smith, M.	2:20-2:30	Aa
9:30-9:40	Som	2:30-2:40	Ald
9:40-9:50	Stal	2:40-2:50	Andersf
9:50-10:00	Stev	2:50-3:00	Arl
10:00-10:10	Stp	3:00-3:10	Bac
10:10-10:20	Suq	3:10-3:20	Bar
10:20-10:30	Tat	3:20-3:30	Bat
10:30-10:40	Thomq	3:30-3:40	Bed
10:40-10:50	Tomm	3:40-3:50	Bens
10:50-11:00	Tuq	3:50-4:00	Bet
11:00-11:10	Vander	4:00-4:10	Blad
11:10-11:20	Ves	4:10-4:20	Bof
11:20-11:30	Wald	4:20-4:30	Bou
	-Sarg		-Webe
	-Schl		-Wer
	-Schwartz, R.		-Wh
	-Send		-Willi
	-Shel		-Wolc
	-Siel		-Wre
	-Sk		-Yz
	-Smith, L.		-Zz
	-Sol		-Aic
	-Stah		-Anderse
	-Steu		-Ark
	-Sto		-Bab
	-Sup		-Baq
	-Tas		-Bas
	-Thomp		-Bec
	-Toml		-Bentr
	-Tup		-Bes
	-Vandeq		-Blac
	-Ver		-Boe
	-Walc		-Bot
	-Wark		-Bra

WEDNESDAY
JANUARY 15, 1964

A.M.		P.M.	
8:00-8:10	Brb	1:00-1:10	Fim
8:10-8:20	Brown, G.	1:10-1:20	Fod
8:20-8:30	Bud	1:20-1:30	Frao
8:30-8:40	Bus	1:30-1:40	Ga
8:40-8:50	Can	1:40-1:50	Gav
8:50-9:00	Cas	1:50-2:00	Gilm
9:00-9:10	Chb	2:00-2:10	Grai
9:10-9:20	Cj	2:10-2:20	Hae
9:20-9:30	Cohf	2:20-2:30	Harriso
9:30-9:40	Coo	2:30-2:40	Henm
9:40-9:50	Cov	2:40-2:50	Holm
9:50-10:00	Crp	2:50-3:00	Hus
10:00-10:10	Dan	3:00-3:10	Jeh
10:10-10:20	Db	3:10-3:20	Kan
10:20-10:30	Denh	3:20-3:30	Kes
10:30-10:40	Dio	3:30-3:40	Knj
10:40-10:50	Dow	3:40-4:00	Kruh
10:50-11:00	Duq		
11:00-11:10	Eh		
11:10-11:20	Eo		
11:20-11:30	Fao		
	-Brown, F.		-Foc
	-Buc		-Fran
	-Bur		-Fz
	-Cam		-Gau
	-Car		-Gill
	-Cha		-Grab
	-Ci		-Had
	-Cohe		-Harriso
	-Con		-Henl
	-Cou		-Holl
	-Cro		-Hur
	-Dam		-Jog
	-Daz		-Kam
	-Deng		-Ker
	-Din		-Knl
	-Dou		-Krug
	-Dup		-Lawre
	-Eg		
	-En		
	-Fan		
	-Fil		

SATURDAY
JANUARY 18, 1964

Any student may register from 1:00 to 4:00 P.M. Saturday registration is inadvisable, however, as many sections of course offerings will be closed.

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University of Michigan Official Publication

University of Michigan Official Publication is the title given to the series of administrative bulletins published by the University. This series includes the following:

BULLETINS FOR PROSPECTIVE STUDENTS

The prospective student should have, in addition to a copy of the bulletin *General Information*, a copy of one or more of the announcements or bulletins listed under this head. These will be sent, without charge, on request to The University of Michigan.

General Information

Announcements:

Architecture and Design, College of
Business Administration, Graduate School of
Business Administration, School of
Dearborn Campus
Dentistry, School of
Education, School of
Engineering, College of
Flint College
Graduate Dentistry, W. K. Kellogg Foundation Institute
Graduate Studies, Horace H. Rackham School of
Law School
Literature, Science, and the Arts, College of
Medical School
Music, School of
Natural Resources, School of
Nursing, School of
Pharmacy, College of
Postgraduate Dentistry, W. K. Kellogg Foundation Institute
Public Administration, Institute of
Public Health, School of
Social Work, School of
Summer Session

OTHER BULLETINS

Extension courses

Bulletins describing the work of various departments and curriculums

For general information concerning the University, address University of Michigan, Ann Arbor, Michigan.





1963

1964

***University
Scholarships
Fellowships
and Prizes***

Vol. 65, No. 25

August 26, 1963

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UNIVERSITY OF MICHIGAN OFFICIAL PUBLICATION

***University
Scholarships
Fellowships
and Prizes***

ANN ARBOR

PUBLISHED BY THE UNIVERSITY

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Introduction

THIS bulletin describes the various scholarships, fellowships, prizes, and other awards available for students at The University of Michigan. It is published for the information of students who may be eligible for some form of aid and recognition and of alumni and friends of the University who may be interested in establishing additional student aid funds at the University. This publication describes only those awards for which the funds are deposited with the University and those for which some agency of the University participates in the selection of recipients.

The following general definitions of terms are recognized by The University of Michigan:

A "scholarship" is an outright payment of money by the University to a student who has been selected for such aid by the University on the basis of one or all of the following criteria: (a) scholastic ability, (b) character, and (c) financial need. Other and more specific criteria of selection may be stated by donors. The term "scholarship" may also be used to designate stipends, usually of lesser amounts than a fellowship, that are paid to graduate students.

The term "fellowship," unless otherwise used by the donor, is not applied to undergraduate aid in either the colleges or the professional schools.

Payments of money in student aid which do not conform to the definitions given in the preceding paragraphs are designated as "awards" and "grants-in-aid." Awards in general are given in amounts specified by the donor of the fund from which they are derived and upon conditions stated by the donor; grants-in-aid are payments made to meet emergencies.

All of the student aids listed in this pamphlet except for the scholarships otherwise indicated require that an applicant have at least one semester's residence at the University. Some financial aid is available to entering undergraduate students. Among the scholarships for which qualified entering students may apply are the Regents-Alumni Scholarships, the LaVerne Noyes Scholarships, the Consumers Power Company Freshman Scholarship, the Detroit Edison Company Freshman Scholarships, the Lockheed Leadership Scholarship, the General Motors College Scholarships, the American Indian Scholarships, the Michigan Alumni Fund Nonresident Freshman Scholarships, the Horace H. Rackham Undergraduate Scholarships, and those scholarships sponsored by alumni and alumnae groups of the University (usually for students residing in the vicinity of the sponsoring club).

The general sequence adopted in this bulletin is as follows: The first section describes the general scholarships, prizes, and awards. "General" is used in the sense that these are open to all students regardless of school or

college affiliation in the University. Following sections list alphabetically by schools and colleges aids available to students in the University units named.

This bulletin was prepared under the auspices of the Committee on University Scholarships, which was established in October, 1947, by the Board of Regents to administer the Regents-Alumni Scholarships and such other scholarships as may be assigned to its jurisdiction. The committee is composed of nine members of the faculty appointed by the Regents on recommendation by the President, the Assistant Director of Financial Aids who also serves as secretary, and the Director of Financial Aids who acts as chairman.

Further information may be obtained by writing to the offices indicated for specific scholarships or to the Secretary of the Committee on University Scholarships, Scholarship Office, 2011 Student Activities Building, The University of Michigan.

General Scholarships and Awards

EMMA M. AND FLORENCE L. ABBOTT SCHOLARSHIP

ORIGIN: Established in 1940 by bequest of Florence L. Abbott, Ph.B. '99, of Chicago.

ELIGIBILITY: "Caucasian, Protestant women of American parentage who need financial assistance."

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable, depending on the income of the fund.

CHARLES FRANCIS ADAMS MEMORIAL

ORIGIN: Established in 1915 by gifts from friends of Charles Francis Adams, '82-'85, of Detroit, a member of the Class of 1886, who died in 1914.

ELIGIBILITY: Graduates of the Detroit Central High School recommended by that school.

PROCEDURE: Apply to the principal of Detroit Central High School. Nominated to and selected by the Committee on University Scholarships.

AWARD: Variable, depending on the income of the fund.

NUMBER: One annually.

AKRON UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Club of Akron.

ELIGIBILITY: Either men or women from the Akron area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

ALBANY UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the Albany University of Michigan Alumni Club.

ELIGIBILITY: Students from the Albany, New York, area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Not less than \$100 annually.

NUMBER: Variable.

ALPHA DELTA PHI PENSOC ACHIEVEMENT SCHOLARSHIP

ORIGIN: Established in 1962 by gifts of alumni of the Peninsular Chapter of Alpha Delta Phi.

ELIGIBILITY: Members of Alpha Delta Phi fraternity who are: (1) either a junior or senior student who during the semester engaged in the most campus activities and still maintained a grade-point average over 2.3; (2) active member with the highest grade average; (3) pledge with the highest grade average; and (4) active member with the most grade improvement over the previous semester.

PROCEDURE: Selected by the president of the Peninsular Society, the representative of the Committee on University Scholarships, and the president of the undergraduate chapter.

AWARD: Variable, depending on income of fund.

NUMBER: Four.

ALUMNAE CLUBS SCHOLARSHIPS

ORIGIN: Most University of Michigan Alumnae clubs support a scholarship program.

ELIGIBILITY: Usually women students who reside in the vicinity of the sponsoring club. Scholarship, character, and need are among the factors considered.

PROCEDURE: The Alumnae Club Scholarship Committee nominates candidates to the Committee on University Scholarships for approval by that committee. Further information may be obtained from the Alumnae Secretary, Alumni Memorial Hall, Ann Arbor, Michigan.

AWARD: Variable.

NUMBER: Variable.

AMERICAN INDIAN SCHOLARSHIP

ORIGIN: When the treaty of Fort Meigs was negotiated with the Indians by Lewis Cass and Duncan McArthur, September 29, 1817, the Indian tribes decided to give three sections of land to the newly formed Catholepistemiad, or University of Michigania, which was designated in the treaty as "The College of Detroit." This institution, established August 26, 1817, later became The University of Michigan. The Indians made the gift because their "children might want to go to college." In recognition of this first benefaction received by the institution, these scholarships were established for American Indians in 1932 by the Board of Regents.

ELIGIBILITY: American Indians of either sex who are enrolled at, or are eligible for admission to, the University in any field of study; recommended on the basis of worthiness, need, and ability.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, by August 1. Selected by the Committee on University Scholarships.

AWARD: Cash allowance equivalent to semester fees.

NUMBER: Five at any one time.

JOHN A. BARRETT MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1960 by Mrs. John A. Barrett of Newberry, in memory of her late husband, who graduated from the College of Literature, Science, and the Arts in 1924.

ELIGIBILITY: Freshman Regents-Alumni scholars from Newberry, Michigan, if qualified. If no freshman from Newberry is eligible, Regents-Alumni scholars from Ishpeming or Negaunee may be considered.

PROCEDURE: High school seniors should complete and mail an application for scholarship for entering freshmen before December 20 of the year preceding that for which scholarship is desired. Application materials and information may be obtained from the high school principal.

AWARD: \$100.

NUMBER: One annually.

BATTLE CREEK UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1949 by the University of Michigan Club of Battle Creek.

ELIGIBILITY: Men students, not necessarily entering freshmen, usually from the Battle Creek area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Ordinarily equivalent to semester fees.

NUMBER: Variable.

BAY CITY UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1950 by the University of Michigan Club of Bay City, Michigan.

ELIGIBILITY: Students from the Bay City area qualified on the basis of scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

JOHN BLAKE MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1930 by a gift from Katherine Aldrich Blake of Grand Rapids, in memory of her grandson, a student in the University in 1928, who died December 13, 1929. The fund was established in deference to the wish of John Blake that his grandmother would aid some friend of his who could not afford the gratification of his ambition to "go through college."

ELIGIBILITY: Preferably graduates of Grand Rapids Junior College nominated by the president of that institution to the Committee on University Scholarships of The University of Michigan.

PROCEDURE: Apply to the President of Grand Rapids Junior College. Selected by the Committee on University Scholarships.

AWARD: \$280.

NUMBER: One or two annually.

B'NAI B'RITH COUNCIL OF MICHIGAN AWARD

ORIGIN: Established in 1947 by the Board of Governors of Lane Hall and the B'nai B'rith Hillel Foundation.

ELIGIBILITY: Jewish students showing outstanding leadership in interfaith or intergroup affairs.

PROCEDURE: No application. Selected by a committee designated jointly by the Office of Religious Affairs and B'nai B'rith Hillel Foundation. Nominations may be made by any member of the University's Board of Religious Counselors.

AWARD: \$50 available annually in cash or in books related to the field of intergroup relations.

NUMBER: One or more recipients.

BOARD IN CONTROL OF INTERCOLLEGIATE ATHLETICS SCHOLARSHIP PRIZE

ORIGIN: Established in 1921 by the Board in Control of Intercollegiate Athletics of the Western Conference.

ELIGIBILITY: (1) That "M" man who has made the highest scholastic record at the end of his junior year for his entire record and who has won an "M" in his sophomore or junior year shall receive an award of \$200; and (2) "M" men who at the end of the junior year have a scholastic average of 3.0 or better and who have won an "M" in their sophomore and junior years shall receive an award of \$100.

PROCEDURE: No application. Awarded by the Board in Control of Intercollegiate Athletics.

AWARD: \$100 or \$200.

NUMBER: Variable.

BOSTON UNIVERSITY OF MICHIGAN CLUBS SCHOLARSHIP

ORIGIN: Established in 1942 by the University of Michigan Clubs of Boston.

ELIGIBILITY: Men or women students from the Boston area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: \$100 annually; renewable for the normal four-year undergraduate course.

NUMBER: Variable.

BEN AND LUCILE BRAUN SCHOLARSHIP

ORIGIN: Established in 1948 by a gift from Ben N. Braun, B.S.(Mech.E.) '06, and his wife, Lucile Braun, A.B. '02, A.M. '05, of Oak Park, Illinois.

ELIGIBILITY: Worthy students in the undergraduate units of the University; ordinarily one semester's residence required.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: \$400.

NUMBER: One annually.

BROOMFIELD ESSAY PRIZE

ORIGIN: The late Archibald Broomfield, a prominent Detroit attorney and graduate of the University, LL.B. '02, made a generous bequest to the University in 1953, stipulating that it be used to endow an annual prize essay contest on a subject related to adult education in good citizenship, as a memorial to the members, living and dead, of the Class of 1902 Law.

ELIGIBILITY: The contest is open each year to all students and alumni of The University of Michigan.

PROCEDURE: The contest is conducted annually on a topic stipulated by the committee which administers the competition. A copy of the current announcement containing the topic for the year and the rules under which the competition is conducted can be secured by addressing a request to the Broomfield Awards Committee, Hutchins Hall, Ann Arbor.

AWARD: The number and size of awards are determined annually.

NUMBER: In 1963 the competition offers one award of \$1,800.

DONALD JOEL BROWN MEMORIAL AWARD

ORIGIN: Established in 1949 in memory of Donald Joel Brown, a member of the Class of 1952, who lost his life in an automobile accident while returning to school following spring vacation in 1949, by gifts from his parents and other relatives and friends.

ELIGIBILITY: Residents of Lloyd House, West Quadrangle, for two semesters or more with a minimum over-all grade-point average of 2.7. Award made primarily on basis of leadership in house activities and scholarship; need is also considered.

PROCEDURE: Apply through the Lloyd House Student Council by the third week of the second semester. Final selection made by the two Lloyd House faculty associates and the resident adviser.

AWARD: \$100; not renewable.

NUMBER: One annually, awarded at the West Quadrangle Honors Dinner, second semester, and presented to the winner at the end of the following first semester.

BUFFALO UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Club of Buffalo.

ELIGIBILITY: Students from the Buffalo area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

MARGUERITE KNOWLTON BURSLEY SCHOLARSHIP

ORIGIN: Established in 1940 by gifts from Joseph A. Bursley, B.S.(Mech.E.) '99 (husband), Anne A. Bursley, B.S.P.H.N. '49, Rebecca B. Winder, A.B. '49, and Margery K. Bursley, A.B. '43, as a permanent memorial to Marguerite Knowlton Bursley, A.B. '01.

ELIGIBILITY: Members of Collegiate Sorosis who meet one of the following sets of qualifications: 1 (a) have junior or senior standing, (b) stand in the highest quarter scholastically in the junior or senior classes in Sorosis, and (c) have at the same time done much to create an atmosphere of friendliness and co-operation among the girls in Collegiate Sorosis and by their graciousness and understanding have been an inspiration to others, both scholastically and socially; 2 (a) have junior or senior standing and (b) have shown the greatest improvement in their scholastic record over that of the preceding year; 3 (a) have sophomore standing and (b) have shown the greatest improvement in their scholastic record over that of the preceding year. Other things being equal, financial need is considered in each of these awards.

PROCEDURE: No application. Selected by a committee of three consisting of the president of the Sorosis Club of Michigan who is to be chairman of the committee; the chairman of the Scholarship Committee of the Sorosis Club; and a third person, a resident of Ann Arbor, to be appointed by the president of the Sorosis Club.

AWARD: Variable; one-third of the income on \$5,000 for each award.

NUMBER: Three annually; one of each type of award.

BUSINESS AND PROFESSIONAL WOMEN'S CLUBS OF DISTRICT VIII SCHOLARSHIP

ORIGIN: Established in 1958 by the Michigan Federation of Business and Professional Women's Clubs, Inc., District VIII.

ELIGIBILITY: Freshman girls who are residents of District VIII and who are graduates of accredited high schools in that district or of Cooley High School in Detroit. The recipient shall be in need of financial assistance and shall be desirous and capable of pursuing studies in science or related fields. Basis of selection shall include character, ability, and activity participation.

PROCEDURE: Winners chosen from girls who complete an application for scholarship for entering freshmen and who give definite evidence of pursuing studies in science or related fields. Applications should be accompanied by letters of recommendation from the principal or science teacher, giving details of qualifications. Selected by the Committee on University Scholarships.

AWARD: Variable; not to exceed \$500.

NUMBER: Variable.

DORCAS ELIZABETH CAMPBELL SCHOLARSHIP

ORIGIN: Established in 1959 from funds bequeathed to the University in the will of Dorcas Elizabeth Campbell.

ELIGIBILITY: Students in the undergraduate colleges and schools who have been in residence at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

CHI PSI EDUCATIONAL TRUST

ORIGIN: Established in 1946 by the Chi Psi fraternity.

ELIGIBILITY: Regularly enrolled students, members of the Chi Psi fraternity, who have completed at least five semesters in residence and who have exhibited promise in scholarship, qualities of leadership, and wholesome influence and character in the activities of their college and fraternity.

PROCEDURE: Nominees selected each fall by the local fraternity chapter; recipient chosen by the Office of Student Affairs.

AWARD: Not to exceed \$200 each.

NUMBER: One annually.

CINCINNATI UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1960 by the University of Michigan Club of Cincinnati.

ELIGIBILITY: Students from the Cincinnati area, qualified on the basis of scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

CLEVELAND UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Club of Cleveland.

ELIGIBILITY: Students from the Cleveland area, qualified on the basis of scholarship, character, and achievement.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

COLLEGIATE SOROSIS AWARD

ORIGIN: Established in 1927 as a memorial to Maude Merritt Drake, B.L. '93, of Ann Arbor, by gifts from her husband and children and the alumnae of Collegiate Sorosis.

ELIGIBILITY: That member of Collegiate Sorosis who gives greatest promise of developing into a fine type of womanhood.

PROCEDURE: No application. Selected by a committee consisting of the President of Sorosis Club of Michigan, who is to be chairman of the committee; the President of Collegiate Sorosis; and a third member, a resident of Ann Arbor, to be appointed by the President of the Sorosis Club.

AWARD: Variable; income on \$2,000.

NUMBER: One annually.

COLORADO UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1949 by the University of Michigan Club of Colorado.

ELIGIBILITY: Men who are residents of the state of Colorado; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; renewable.

NUMBER: Variable.

CONFERENCE MEDAL

ORIGIN: Established in 1917 by the Board in Control of Intercollegiate Athletics of the Western Conference.

ELIGIBILITY: That student of the graduating class who has attained the greatest proficiency in athletics and in scholarship.

PROCEDURE: No application. Awarded in the fall semester by the Board in Control of Intercollegiate Athletics.

AWARD: Medal.

NUMBER: One annually.

LUCILE B. CONGER SCHOLARSHIP

ORIGIN: Established in 1961 by the Lucile B. Conger Group of the University of Michigan Alumnae Club of Ann Arbor to honor their sponsor.

ELIGIBILITY: Undergraduate women students; based on academic performance, contribution to University life, and financial need.

PROCEDURE: Apply to the Alumnae Secretary, Alumnae Council Office, Michigan League or Alumni Memorial Hall, when announced in the "Daily Official Bulletin" of the *Michigan Daily*. Selected by the Alumnae Council Scholarship Committee assisted by representatives from the Conger Group and the Office of Financial Aids.

AWARD: Variable.

NUMBER: Variable.

CONSUMERS POWER COMPANY FRESHMAN SCHOLARSHIP

ORIGIN: Established in 1956 by the Consumers Power Company and contributed annually.

ELIGIBILITY: Applicants must live in a Michigan area served by the Consumers Power Company. Merit and financial need will be considered.

PROCEDURE: Apply as high school seniors by completing an application for a scholarship for entering freshmen. This application must be completed by December 20 of the University year preceding that for which scholarship is desired. Selected by the Committee on University Scholarships.

AWARD: \$300.

NUMBER: One annually.

ELWOOD CROUL SCHOLARSHIP

ORIGIN: Established in 1941 by the bequest of the late Charles B. DuCharme, A.B. '06, of Detroit, as a memorial to his friend Elwood Croul, '04-'07, who died in 1924.

ELIGIBILITY: A deserving student, prepared for college at Westminster School, Simsbury, Connecticut, who desires to attend The University of Michigan. If in any year no graduate of Westminster School is recommended for the award, the scholarship is assigned to a senior at The University of Michigan, recommended by the faculty as the outstanding member of his class with respect to excellence in classwork, athletic ability, and general participation in campus activities. Limited to men students in the undergraduate colleges.

PROCEDURE: No application. Recommended by Westminster School; when no one from this school applies, recipient is selected by the Committee on University Scholarships.

AWARD: Approximately \$100 annually or the income on \$5,000.

NUMBER: One or two annually.

D. A. R. WAR MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1924 by gifts amounting to \$5,000 from the D.A.R. of Michigan in memory of the men of Michigan who lost their lives in the service of their country in the first World War.

ELIGIBILITY: Worthy undergraduate students, either men or women, who are residents of the state of Michigan and who have attended the University at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

DEARBORN ALUMNI SCHOLARSHIP

ORIGIN: Established in 1955 by the University of Michigan Club of Dearborn.

ELIGIBILITY: Students from Dearborn; based on scholarship, character, and promise of becoming worthy students and alumni of the University.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

DES MOINES UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1943 by the University of Michigan Club of Des Moines.

ELIGIBILITY: Freshman students from the Des Moines area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Ordinarily \$100; renewable for the normal four-year undergraduate course.

NUMBER: Variable.

DETROIT EDISON COMPANY FRESHMAN SCHOLARSHIP

ORIGIN: Established in 1955 by the Detroit Edison Company and contributed annually.

ELIGIBILITY: Graduating high school seniors who live in an area served by the Detroit Edison Company. Selection of award winners based on scholastic ability, character and personality, citizenship, extracurricular activities, seriousness of purpose, and financial need.

PROCEDURE: Apply for a scholarship for entering freshmen before December 20. Supplies of application forms are mailed to Michigan accredited high schools in October. Selected by the Committee on University Scholarships.

AWARD: \$350 for the freshman year.

NUMBER: Three.

DETROIT EDISON COMPANY SCHOLARSHIP

ORIGIN: Established in 1952 by the Detroit Edison Company and contributed annually.

ELIGIBILITY: Male applicants who are residents of Michigan. Must have completed at least one year of study at the University in a field that relates to the electric utility industry, such as economics, accounting, business and personnel administration, and mechanical and electrical engineering.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: \$325.

NUMBER: One.

DETROIT UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1930 by the University of Michigan Club of Detroit and designated as follows: Dean Anderson Scholarship, Lou Burt Scholarship, Charles B. DuCharme Scholarship, Pete Elliott Scholarship, Dexter Ferry, Jr., Scholarship, James Murfin Scholarship, Terrill Newnan Scholarship, and Fred M. Zeder, Jr., Scholarship.

ELIGIBILITY: Usually entering freshmen from the Detroit area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Equivalent to semester fees; renewable for the normal four-year undergraduate course.

NUMBER: Eight annually.

JOHN W. ECKHART MEMORIAL STUDENT AID

ORIGIN: Established in 1939 by members of the University of Michigan Club of Chicago in memory of John W. Eckhart, B.Mech.E. '12, and maintained by gifts from individual members of the Club.

ELIGIBILITY: Men students from the Chicago area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: \$100 or semester fees; renewable on recommendation of the trustees of the fund.

NUMBER: Variable.

LOUIS ELBEL STUDENT AID

ORIGIN: Established in 1949 by the University of Michigan Club of South Bend in memory of Louis Elbel, '96-'99, who wrote "The Victors."

ELIGIBILITY: Worthy young men and women from the South Bend area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; awarded as grants-in-aid.

NUMBER: Variable.

ELKHART COUNTY SCHOLARSHIP

ORIGIN: Established in 1951 by the University of Michigan Club of Elkhart County, Elkhart, Indiana.

ELIGIBILITY: Men or women students, residents of Elkhart County. Awards will be made on the basis of character and citizenship, scholastic ability and achievement, physical vigor, and leadership.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

MARTHA SPEECHLY ELLIOTT SCHOLARSHIP

ORIGIN: Established in 1944 with the gift of \$1,000 from an anonymous donor.

ELIGIBILITY: Needy Protestant students who are studying for foreign or home missionary religious work, for the ministry, for religious education, or for other Christian services.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

EUGENE G. FASSETT SCHOLARSHIP

ORIGIN: Established in 1938 by a bequest from the late Eugene G. Fassett, B.S. '92, of Chicago.

ELIGIBILITY: Students in the undergraduate colleges and schools who have been in residence at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

FLINT UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1949 by the University of Michigan Club of Flint.

ELIGIBILITY: Either men or women students, usually from the Flint area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; may be renewed.

NUMBER: Variable.

ELEANOR CLAY FORD AWARD

ORIGIN: Established in 1923 by Eleanor Clay Ford (Mrs. Edsel B. Ford) of Detroit, with an endowment fund of \$8,000 to encourage public speaking and debating among the women of the University.

ELIGIBILITY: Women participants in University of Michigan debates.

PROCEDURE: No application. Selected by the Department of Speech.

AWARD: Annual testimonials of \$50 each.

NUMBER: Three to six annually.

FOREIGN STUDENT SCHOLARSHIPS

ORIGIN: Established in 1943 and maintained by annual appropriation by the Regents of The University of Michigan.

ELIGIBILITY: Foreign students who have demonstrated excellent academic ability at The University of Michigan and who have financial need.

PROCEDURE: Apply by April 15 to the dean of the school or college in which enrolled or inquire at the International Center. Must be recommended by the appropriate officer of the school or college concerned to the Committee on Foreign Student Scholarships; selected by that committee.

AWARD: Ordinarily semester fees.

NUMBER: Variable.

FORT WAYNE, INDIANA, UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1948 by the University of Michigan Club of Fort Wayne.

ELIGIBILITY: Men or women students from Fort Wayne; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; may be renewed.

NUMBER: Variable.

GENERAL MOTORS CORPORATION COLLEGE SCHOLARSHIPS

ORIGIN: Established in 1955 by the General Motors Corporation.

ELIGIBILITY: Entering freshmen in any of the undergraduate units of the University which admit freshmen. Based upon character, scholarship, leadership, extracurricular activities, and financial need.

PROCEDURE: Apply for a scholarship for entering freshmen by February 1. Selected by the Committee on University Scholarships.

AWARD: Variable, depending upon need, with a range from \$200 to \$2,000. Renewable for three years if scholastic record warrants.

NUMBER: Seven each year.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in all of the undergraduate schools and colleges and the professional schools; basic requirements, high scholarship and financial need; additional requirements in individual school or college.

PROCEDURE: Varies with the individual school or college; see individual school or college listing.

AWARD: Variable.

NUMBER: Variable.

GILBERT AND SULLIVAN SCHOLARSHIP

ORIGIN: Provided by earnings of the Gilbert and Sullivan Society.

ELIGIBILITY: Active member of Gilbert and Sullivan Society for at least two semesters.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building. Students nominated from applicants by Gilbert and Sullivan Society to the Committee on University Scholarships; selected by that committee.

AWARD: Semester fees for one semester; not renewable.

NUMBER: Varies with available funds. No more than one a semester.

LESLIE W. GODDARD SCHOLARSHIP

ORIGIN: Established in 1944 by bequest of Leslie W. Goddard, B.S.(C.E.) '86, Grand Rapids, Michigan.

ELIGIBILITY: Students in the undergraduate colleges and schools who have been in residence at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

GRAND RAPIDS UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1953 by the University of Michigan Club of Grand Rapids.

ELIGIBILITY: Men or women from the Grand Rapids area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

GREATER ATLANTA UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1949 by the Greater Atlanta University of Michigan Club.

ELIGIBILITY: Students from the Greater Atlanta area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

MARILLA GRISWOLD SCHOLARSHIP

ORIGIN: Established in 1919 by bequest of Marilla Griswold of Allegan, Michigan; the income to be used as the Regents direct to help needy students, with preference given to those from Allegan County.

ELIGIBILITY: Worthy students in any of the units of the University.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

GROSSE POINTE UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1954 by the University of Michigan Club of Grosse Pointe, Michigan.

ELIGIBILITY: Students from the Grosse Pointe area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

VENA HALLER MEMORIAL AWARD

ORIGIN: Established in 1953 to perpetuate the memory of Mrs. Vena Haller, first Associate Adviser of Huber House, South Quadrangle, by gifts from her friends.

ELIGIBILITY: A resident of Huber House for at least one year who gives ample evidence of continued Huber House residency. Based on outstanding citizenship, scholarship (at least 2.5 honor-point average), and need.

PROCEDURE: Selected by the Huber House Council and the senior staff during the spring semester and announced at the South Quadrangle Honors Dinner.

AWARD: \$100.

NUMBER: One or more annually.

SETH HARRISON SCHOLARSHIP

ORIGIN: Established in 1895 by a gift of \$25,000 from Clara Harrison Stranahan of Brooklyn, New York, in memory of her father, Seth Harrison. The fund now amounts to \$35,780.

ELIGIBILITY: Descendants of Seth Harrison who may be studying in the divisions of the University which in 1895 were included in the Department of Literature, Science, and the Arts. If, during a period of seven years, no qualified applicants appear, the Regents may at their discretion award the scholarships to other deserving and needy students.

PROCEDURE: Apply to the President of the University. Selected by the President's Office.

AWARD: Not to exceed \$600.

NUMBER: Variable.

HASTINGS UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1947 by the University of Michigan Club of Hastings, Michigan.

ELIGIBILITY: Students from the Hastings area qualified on the basis of scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

ORRA HEALD SCHOLARSHIP

ORIGIN: Established in 1957 in accordance with the will of Orra H. Blackmore of Lansing, Michigan.

ELIGIBILITY: Worthy students who have been in residence at least one semester in an undergraduate college or school, with preference given to students from Ingham County, Michigan, and those who are descendants of World War I veterans.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

MARY LOUISA HINSDALE SCHOLARSHIP

ORIGIN: Established in 1947 through the Alumnae Council to honor the memory of Mary Louisa Hinsdale, A.M. '90, Ph.D. '12.

ELIGIBILITY: Independent, single women students living outside the residence hall system, who are wholly or partially self-supporting; based on scholarship and need.

PROCEDURE: Applications are available from Alumnae Secretary, Alumnae Council Office, Michigan League or Alumni Memorial Hall, when announced. Selected by the Alumnae Council Scholarship Committee assisted by the Office of Financial Aids.

AWARD: Variable.

NUMBER: One each semester.

AVERY HOPWOOD AND JULE HOPWOOD PRIZES

ORIGIN: Established in 1929 by bequest of James Avery Hopwood, A.B. '05, of New York City, and increased by a further bequest from his mother, Mrs. Jule Hopwood of Cleveland, Ohio.

ELIGIBILITY: Regularly enrolled students who have elected for at least one semester of the year in which they compete a course in composition in the Department of English Language and Literature or the Department of Journalism. Graduate students must elect a writing course in the first semester of the year of competition. Special contests for the freshman class and for the students in the summer session.

PROCEDURE: Awarded (in major and minor awards) for the best creative work of the individual contests in the fields of dramatic writing, fiction, poetry, and the essay; need not be an academic subject; by stipulation of the donor, the new, the unusual, and the radical are to be especially encouraged; selected by a special jury. For copies of the rules, inquire in the Hopwood Room.

AWARD: Under normal conditions the sum of \$8,500 is available annually. Major awards range from \$500 to \$2,000; minor awards are usually not more than \$250; in the freshman class competition, awards to the total amount of \$300 are made, and in the summer session competition, awards to the total amount of \$500.

NUMBER: Variable.

EDWARD C. HOUGH AND MARY HOUGH KIMBLE SCHOLARSHIP

ORIGIN: Gift to the University by Edward C. Hough and Mary Hough Kimble.

ELIGIBILITY: Students in the undergraduate colleges and schools who have been in residence at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

HOUSTON UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1960 by the University of Michigan Club of Houston.

ELIGIBILITY: Students from the Houston area, qualified on the basis of scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

FREDERICK G. L. HUETWELL SCHOLARSHIP

ORIGIN: Established in 1955 by a gift to the University from Frederick G. L. Huetwell, of Detroit.

ELIGIBILITY: Students in the undergraduate schools and colleges who have been in residence at least one semester. Preference given to residents of Wayne County, Michigan.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

KALAMAZOO-MICHIGAN FOUNDATION SCHOLARSHIP

ORIGIN: Established in 1951 by the University of Michigan Club of Kalamazoo.

ELIGIBILITY: Students recommended by the Club on the basis of scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

KANSAS CITY UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Club of Kansas City.

ELIGIBILITY: Men or women from the Kansas City area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; may be renewed.

NUMBER: Variable.

JACK KELSEY MEMORIAL AWARD

ORIGIN: Established in 1955 by family and friends as a memorial to Jack Kelsey, who died while serving in the United States Army.

ELIGIBILITY: Gomberg House resident who typifies citizenship, scholarship, and versatility of aptitude as exhibited by Jack Kelsey.

PROCEDURE: No application. Nominated by a special committee from Gomberg House to the Committee on University Scholarships; selected by that committee.

AWARD: \$50 honorary award.

NUMBER: One annually.

HAROLD STUART KILPATRICK MEMORIAL PRIZE

ORIGIN: Established in 1928 by Mrs. W. H. Kilpatrick of Detroit, in memory of her son, Harold Stuart Kilpatrick, B.S.E.(M.E.) '23.

ELIGIBILITY: That member of Alpha Omicron Chapter of Phi Kappa Sigma in residence at this University who has been of the greatest value to the Chapter and to the University during the academic year. Personality, scholastic standing, campus activity, and activity in the fraternity considered.

PROCEDURE: No application. Selected by the Office of Financial Aids.

AWARD: \$50.

NUMBER: One annually.

JOHANNES KOPELKE SCHOLARSHIP

ORIGIN: Established in 1937 jointly by bequest of Johannes Kopelke, LL.B. '76, of Gary, Indiana, and by the University of Michigan Club of Gary, Indiana.

ELIGIBILITY: Students from the Gary area; based on scholarship, character, and financial need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

LANSING UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1947 by the University of Michigan Club of Lansing.

ELIGIBILITY: Men or women from the Lansing area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Usually equivalent to semester fees.

NUMBER: Variable.

1949 LITERARY COLLEGE CLASS AWARD

ORIGIN: Established in 1954 at the first five-year reunion of the 1949 Literary College Class.

ELIGIBILITY: Needy entering freshmen in the College of Literature, Science, and the Arts.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, by February 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

LOCKHEED LEADERSHIP SCHOLARSHIP

ORIGIN: Established in 1953 by the Lockheed Leadership Fund and contributed regularly.

ELIGIBILITY: Applicants must be accepted for admission to the University's College of Engineering and must plan to study an area of engineering applicable to the aircraft manufacturing industry. Awards are based upon scholarship, character, and need.

PROCEDURE: Apply for a scholarship for entering freshmen before February 1. Selected by the Committee on University Scholarships.

AWARD: Semester fees plus \$500. Renewable for three additional years if scholastic record warrants.

NUMBER: One each year, when announced.

LOCKHEED SUPPLEMENTARY SCHOLARSHIPS

ORIGIN: Established in 1954 by funds sent to the University by the Lockheed Leadership Fund as an unrestricted grant.

ELIGIBILITY: Worthy students in the undergraduate units of the University who have been in residence at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

LOUISVILLE UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1958 by the University of Michigan Club of Louisville.

ELIGIBILITY: Students from the Louisville area, qualified on the basis of scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

FREDERICK E. AND GENEVIEVE PINSON LUDWIG SCHOLARSHIP

ORIGIN: Established in 1957 as a gift to the University by Dr. and Mrs. Frederick E. Ludwig.

ELIGIBILITY: Any needy student at the University without regard to sex, race, religion, field of study, or academic level. Preference given to residents of St. Clair County, Michigan.

PROCEDURE: No formal application. Nominated by Dr. and Mrs. Ludwig to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

A. J. McANDLESS SCHOLARSHIP

ORIGIN: Established in 1953 by the Lincoln National Life Insurance Company and contributed annually.

ELIGIBILITY: Men or women students in any division of the University, either entering freshmen or students already enrolled. Awards will be made on the basis of (a) moral character and good citizenship, (b) scholastic ability and intellectual capacity and achievement, (c) physical ability, vigor, and vitality, and (d) capacity and promise of leadership and success.

PROCEDURE: No formal application. Nominated by the Company to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

ETHEL A. McCORMICK SCHOLARSHIPS

ORIGIN: The Undergraduate Council of the University of Michigan League in 1936 adopted a plan for accumulating an endowment for both undergraduate and graduate scholarships. The former are to be known as the Ethel A. McCormick Scholarships and are provided from the income of the endowment which was completed by the Council of 1940-41.

ELIGIBILITY: Junior and senior women in the undergraduate units of the University who are distinguished by (1) qualities of leadership exemplified by participation in women's activities included under the merit system; (2) character; (3) scholarship; and (4) need.

PROCEDURE: Apply to the president of the Women's League during the month of March. Selected by the executive board of the Council and awarded at the spring installation of League officers.

AWARD: \$100 each.

NUMBER: Three annually.

STANLEY DICKINSON McGRAW SCHOLARSHIP

ORIGIN: Established in 1958 by bequest of Stanley Dickinson McGraw, A.B. '92.

ELIGIBILITY: Students in the undergraduate schools and colleges.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

EMMA CLARISSA MALCOLM SCHOLARSHIP

ORIGIN: Established in 1948 by bequest of Emma Clarissa Malcolm of Ann Arbor.

ELIGIBILITY: Nieces and nephews of Miss Malcolm in any undergraduate college of the University; those enrolled in the professional schools or in the Horace H. Rackham School of Graduate Studies considered when no undergraduates apply.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, at least one semester before the University year for which the scholarship is desired. Recipients selected on July 15 by the Committee on University Scholarships.

AWARD: Approximately \$250 annually.

NUMBER: One annually; in exceptional circumstances, two.

MANISTEE UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1948 by the University of Michigan Club of Manistee.
ELIGIBILITY: Entering freshman men or women whose homes are in Manistee; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; may be renewed.

NUMBER: Variable.

MANSFIELD UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1954 by the University of Michigan Club of Mansfield, Ohio.

ELIGIBILITY: Freshman men or women whose homes are in the Mansfield area. They shall show: (1) above average scholastic ability; (2) moral character and leadership; (3) good health and physical ability; (4) need of financial assistance.

PROCEDURE: Apply as high school seniors to the Scholarship Committee of the Club through the principal of the high school in which enrolled before April 1. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Semester fees for one year; renewable for one year.

NUMBER: Variable.

ALICE B. MARTIN SCHOLARSHIP

ORIGIN: Established in 1929 by bequest of Alice B. Martin-Hutsinpillar of Los Angeles, California, because of her deep interest in University students, gained while her husband, James N. Martin, M.D. '83, was a professor in the Medical School.

ELIGIBILITY: Students residing at Adelia Cheever Residence who are chosen on the basis of character, ability, and need.

PROCEDURE: Apply at the Office of Financial Aids when announced. Selected by the Board of Patronesses of Adelia Cheever Residence.

AWARD: Variable.

NUMBER: Variable.

FREDERICK C. MATTHAEI SCHOLARSHIP

ORIGIN: Established in 1953 by a gift from Frederick C. Matthaei, A.B. '14, D.B.A.(*hon.*) '53.

ELIGIBILITY: Entering freshman men students; based on need and scholastic ability, together with capacity, promise, and desire of leadership and success. Limited to residents of the Detroit area.

PROCEDURE: No formal application. Nominated by the Scholarship Committee of the University of Michigan Club of Detroit to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: One or more.

JOHN F. MAULBETSCH MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1953 by a gift from Frederick C. Matthaei, A.B. '14, D.B.A.(*hon.*) '53, in memory of John F. Maulbetsch, '17 Pharm.-Chem., a great athlete and man of Michigan.

ELIGIBILITY: Entering freshman men students; based on need and scholastic ability, together with capacity, promise, and desire of leadership and success. Not restricted to Michigan residents.

PROCEDURE: No formal application. Nominated by the Executive Board of the University of Michigan Graduate "M" Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: One or more.

MEMPHIS UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1936 by the Memphis University of Michigan Club.

ELIGIBILITY: Entering students from the Memphis area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable, depending on the unit in which enrolled.

NUMBER: Variable.

MIAMI UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1958 by the University of Michigan Club of Miami.

ELIGIBILITY: Men or women from the Miami area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

MICHIGAN ALUMNI FUND NONRESIDENT FRESHMAN SCHOLARSHIPS

ORIGIN: Established in 1954 by funds provided by the Michigan Alumni Fund.

ELIGIBILITY: Entering freshmen who are nonresidents of Michigan; based on scholarship, character, and need.

PROCEDURE: Candidates are nominated through the outstate University of Michigan Alumni and Alumnae clubs. Selection is made by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

MICHIGAN PUBLIC JUNIOR COLLEGE SCHOLARSHIPS

ORIGIN: Established in 1941 by the Regents of the University.

ELIGIBILITY: Students who have graduated from the Michigan public junior colleges and who have been admitted to The University of Michigan.

PROCEDURE: Nominated on or before April 1 by the appropriate authorities in the individual junior college; selected by the Committee on University Scholarships. For details, consult the authorities of the junior college.

AWARD: Variable; range in value from a \$50 entrance scholarship to a maximum of \$560 a year. Renewable for the normal length of the degree program in which the student is enrolled.

NUMBER: Two assigned to each junior college plus one additional scholarship for every two hundred students or major fraction thereof enrolled at the junior college.

MIDLAND ALUMNI SCHOLARSHIP AND LOAN FUND

ORIGIN: Established by the Board of Governors of the University of Michigan Club of Midland and supported by the alumni of Midland.

ELIGIBILITY: Students from the Midland area; based on scholarship, character, and need.

PROCEDURE: Written application to the University of Michigan Alumni Club of Midland. The Club will nominate students to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

MILWAUKEE UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Club of Milwaukee.

ELIGIBILITY: Students living in the Milwaukee area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Ordinarily not to exceed \$200 annually; renewable.

NUMBER: Variable.

CHARLES N. AND MINNIE L. MORRISON SCHOLARSHIP

ORIGIN: Established in 1962 by bequest of Minnie L. Morrison.

ELIGIBILITY: Needy and worthy students in the undergraduate units of the University who have been in residence at least one semester.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

MEYER MORTON TROPHY

ORIGIN: Established in 1946 by Meyer Morton, LL.B. '12, of Chicago, with a gift to the President of the University of \$1,500 for the purpose of maintaining and awarding a trophy.

ELIGIBILITY: The most valuable candidate developed in the spring football practice.

PROCEDURE: No application. Awarded on the basis of the vote of the coaches concerned.

AWARD: Trophy.

NUMBER: One annually.

MURBACH BIOLOGICAL SCHOLARSHIP

ORIGIN: Established in 1956 from a bequest by the late Dr. Louis Murbach, Ph.D. '89, B.S. '90, of Castleton, Vermont.

ELIGIBILITY: Needy students of biology. First preference given to heirs of Dr. and Mrs. Murbach; second, to graduates of Central High School (Detroit); and third, to teachers of Central High School.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

DAISY MURFIN SCHOLARSHIP FOR HENDERSON HOUSE

ORIGIN: Established in 1950 by the Alumnae Council in memory of Mrs. James O. Murfin, honorary alumna of The University of Michigan.

ELIGIBILITY: Women students who are residents of Henderson House; based on scholarship and leadership in co-operative living.

PROCEDURE: No application. Awarded by the Board of Governors of Henderson House.

AWARD: \$150.

NUMBER: One.

MUSKEGON UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1948 by the University of Michigan Club of Muskegon.

ELIGIBILITY: Men or women from the Muskegon area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; may be renewed.

NUMBER: Variable.

HELEN NEWBERRY SCHOLARSHIP

ORIGIN: Established through University funds.

ELIGIBILITY: Women students either residing in Helen Newberry Residence or eligible to reside there if awarded this scholarship; who have a 2.5 or higher academic average in the semester before application is made; who contribute to the house in citizenship; and whose education will benefit from the award.

PROCEDURE: Apply at the Office of Financial Aids when announced. Selected by the Board of Patronesses of Helen Newberry Residence.

AWARD: Variable.

NUMBER: Variable.

NEW YORK UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Club of New York.

ELIGIBILITY: Entering freshman men from the New York area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: \$100 annually.

NUMBER: Variable.

THOMAS NOWAK, JR., MEMORIAL AWARD

ORIGIN: Established in 1956 by gifts made by the alumni of Allen-Rumsey House, West Quadrangle, in memory of Thomas Nowak, Jr., who died while a resident of the house.

ELIGIBILITY: Residents of Allen-Rumsey who are returning to the house for the following year. Based on leadership and character.

PROCEDURE: Candidates are nominated by the Allen-Rumsey House Council; selected by a committee composed of senior staff and council members.

Announced at a special house dinner in the spring. Payment is made during the following fall semester.

AWARD: Variable.

NUMBER: One annually.

LaVERNE NOYES SCHOLARSHIPS

ORIGIN: Before 1938, these scholarships were granted by the trustees of the estate of the late LaVerne Noyes of Chicago. In that year, by the gift of \$69,600, the trustees established the LaVerne Noyes Foundation at The University of Michigan.

ELIGIBILITY: Students in need of assistance who either served in the Army or Navy of the United States in World War I and were honorably discharged or who are descended by blood from someone who served; enlistment on which application is based must have been prior to May 11, 1918, unless there was overseas service before the Armistice.

PROCEDURE: Apply at the Scholarship Office, 2011 Student Activities Building, before August 1 and February 15 for the fall and spring semesters, respectively. Selected by the Committee on University Scholarships.

AWARD: Semester fees.

NUMBER: Variable; fifteen to twenty-five each semester.

AL OEMING SCHOLARSHIP

ORIGIN: Established in 1947 by the University of Michigan Club of Saginaw.

ELIGIBILITY: Students from Saginaw; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Equivalent to semester fees.

NUMBER: Variable.

OMAHA UNIVERSITY OF MICHIGAN ALUMNI ASSOCIATION SCHOLARSHIP

ORIGIN: Established in 1946 by the University of Michigan Alumni Association of Omaha.

ELIGIBILITY: Young men from the Omaha area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Association to the Committee on University Scholarships; selected by that committee.

AWARD: \$50; renewable for the normal four-year undergraduate course if performance warrants.

NUMBER: Variable.

WENDY OWEN MEMORIAL AWARD

ORIGIN: Established in 1952 by Mrs. David Owen, with a gift of \$5,000 from the estate of Rosemary Owen, '51 L.S.&A.

ELIGIBILITY: Members of the *Michigan Daily* editorial staff (that is, the editorial, sports, and women's staffs) who at the time of application are engaged in at least their second semester of work on the *Daily* and are eligible for at least another year's activity. Only students whose contributions to the University community through the *Michigan Daily* have been soundly constructive will be considered. If among competing candidates qualifications are alike, preference will be shown to those who are in financial need.

PROCEDURE: Application may be made to the Office of Financial Aids not later than March 10. Selection will be made by the Director of Financial Aids in consultation with the managing editor, the women's editor, and the sports editor of the *Michigan Daily*.

AWARD: Approximately \$150, annual income from the gift of \$5,000.

NUMBER: One annually.

PHI GAMMA DELTA SCHOLARSHIP

ORIGIN: Established in 1935 by a gift from the holding corporation of the Ann Arbor chapter of the Phi Gamma Delta fraternity.

ELIGIBILITY: Students with third-year standing in the local chapter of the fraternity who have (1) achieved good grades and (2) participated in fraternity and campus activities.

PROCEDURE: No application. Nominated by the members of the local chapter other than those eligible for the scholarship; selected by the Office of Financial Aids.

AWARD: Income on the fund.

NUMBER: One, when the accumulated interest warrants.

PHILADELPHIA UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1954 by the University of Michigan Club of Philadelphia.

ELIGIBILITY: Students whose homes are in the Philadelphia area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Philadelphia Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

KENT LEE PICARD MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1957 by friends of Kent Lee Picard.

ELIGIBILITY: Needy students majoring in physics in either the College of Engineering or the College of Literature, Science, and the Arts.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: One.

PITTSBURGH UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1948 by the Pittsburgh University of Michigan Club.

ELIGIBILITY: Men students in any undergraduate unit; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: \$150 to be applied toward semester fees.

NUMBER: One annually.

PONTIAC SENIOR HIGH SCHOOL WAR MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1944 by the faculty and students of the Pontiac Senior High School.

ELIGIBILITY: Graduates of Pontiac Senior High School who are attending the University. Ordinarily awarded to an entering University freshman.

PROCEDURE: Apply through the principal of the Pontiac Senior High School. Nominated by the principal to the Committee on University Scholarships; selected by that committee.

AWARD: Equivalent to semester fees; renewable up to a total of eight semesters if the holder's record at the University warrants.

NUMBER: Variable.

IDA B. AND HARRY NELSON QUIGLEY MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1947 by bequest of Ida B. Quigley of Cincinnati, Ohio, in memory of her husband, Harry Nelson Quigley, A.B. '90, LL.B. '91.

ELIGIBILITY: Men or women students who need financial assistance.

PROCEDURE: Apply to the Office of Financial Aids. Selected by the Committee on University Scholarships; awarded in the form of outright grants-in-aid.

AWARD: Variable.

NUMBER: Variable.

HORACE H. RACKHAM UNDERGRADUATE SCHOLARSHIPS

ORIGIN: Established in 1938 out of the Horace H. Rackham and Mary A. Rackham Fund for a limited number of freshman scholarships for men, preferably Michigan residents.

ELIGIBILITY: Freshman men, preferably Michigan residents, showing: (1) moral character and good citizenship; (2) scholastic ability and intellectual capacity and achievement; (3) physical ability, vigor, and vitality; and (4) capacity and promise of leadership and success. Tentative or final admission to the University essential for consideration. Financial need is not a factor.

PROCEDURE: Apply as high school seniors to the Dean of the Horace H. Rackham School of Graduate Studies; return forms before March 15 of the University year preceding that for which the scholarship is desired. Selected by the Committee on Rackham Undergraduate Scholarships, consisting of the deans of the Horace H. Rackham School of Graduate Studies, of the College of Literature, Science, and the Arts, of the College of Engineering, and of the School of Education.

AWARD: \$500 a year. Renewable for a maximum total of eight semesters.

NUMBER: Two or three new appointments each year.

CHARLES A. RANSOM SCHOLARSHIP

ORIGIN: Established in 1919 by bequest of Amanda A. Ransom of Plainwell, Michigan.

ELIGIBILITY: Undergraduate students of either sex who are self-supporting and who are in need of assistance.

PROCEDURE: Apply to the Office of Financial Aids. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

ST. LOUIS UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1958 by the University of Michigan Club of St. Louis, Missouri.

ELIGIBILITY: Students whose homes are in St. Louis; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the St. Louis Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

CLARE M. SANDERS SCHOLARSHIP FOR HENDERSON HOUSE

ORIGIN: Established in 1955 by the Alumnae Council in memory of Clare Mabel Sanders, A.B. '04, first Chairman of the Council.

ELIGIBILITY: Women students living in Henderson House; based on financial need, contribution of leadership, and other subjective qualities.

PROCEDURE: Applications available from Henderson House Board of Governors who choose the recipients.

AWARD: Variable.

NUMBER: Variable.

SAN DIEGO UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1958 by the University of Michigan Alumni Club of San Diego.

ELIGIBILITY: Residents of San Diego; based on character, scholarship, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

SAN FRANCISCO UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1957 by the University of Michigan Club of San Francisco.

ELIGIBILITY: Students whose homes are in the San Francisco area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the San Francisco Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

SCHENECTADY UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1947 by the University of Michigan Club of Schenectady.

ELIGIBILITY: Men or women whose homes are in the Schenectady area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

ARNOLD SCHIFF MEMORIAL AWARD

ORIGIN: Established in 1947 by the Board of Governors of Lane Hall and the B'nai B'rith Hillel Foundation.

ELIGIBILITY: Students showing outstanding leadership in interfaith affairs.

PROCEDURE: No application. Selected by a committee designated jointly by the Office of Religious Affairs and the B'nai B'rith Hillel Foundation. Nominations may be made by any member of the University's Board of Religious Counselors.

AWARD: \$100 to be awarded annually.

NUMBER: One or more recipients.

SEATTLE UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1943 by the University of Michigan Club of Seattle, Washington.

ELIGIBILITY: Students in any school or college of the University; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; renewable on the recommendation of the dean of the school or college in which the recipient is enrolled.

NUMBER: Variable.

LAUREL HARPER SEELEY FUND FOR WOMEN STUDENTS

ORIGIN: Established in 1948 by bequest of Laurel Harper Seeley, '28-'29 Arch.

ELIGIBILITY: Undergraduate women students of high academic standing, citizenship, and need.

PROCEDURE: Applications are available from the Alumnae Secretary, Alumnae Council Office, Michigan League or Alumni Memorial Hall, when announced. Selected by the Alumnae Scholarship Committee assisted by the Office of Financial Aids.

AWARD: Variable.

NUMBER: Variable.

CRAPO C. SMITH FUND

ORIGIN: Established in 1948 by bequest of Crapo C. Smith, LL.B. '96.

ELIGIBILITY: Worthy young white men or women who (1) are pursuing, or are about to pursue, regularly prescribed courses in The University of Michigan and (2) are partly or entirely self-supporting.

PROCEDURE: Apply to the Office of Financial Aids. Selected by the President; awarded in the form of outright grants-in-aid.

AWARD: Variable.

NUMBER: Variable.

REYNOLDS RICH SMITH PHI GAMMA DELTA AWARD

ORIGIN: Established in 1944 by initial gift of \$1,000 from Shirley W. Smith, B.L. '97, A.M. '00, LL.D.(hon.) '45, Vice-President and Secretary of the University until his retirement in 1945, and his wife, Sara Browne Smith, Ph.B. '97, in honor of their son, Reynolds Rich Smith, a member of the Engineering Class of 1922, who died February 2, 1919, at an officers' training camp at the United States Military Academy, West Point.

ELIGIBILITY: Members of the Michigan Chapter of Phi Gamma Delta who show scholarship, leadership, substantial character, and general manliness.

PROCEDURE: No application. Selected by the president of the active chapter of Phi Gamma Delta, the president of the association of graduates, and the Director of Financial Aids.

AWARD: Variable, depending on the income of the fund.

NUMBER: One annually.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS SCHOLARSHIP

ORIGIN: Established in 1957 by the Society of Naval Architects and Marine Engineers of New York City.

ELIGIBILITY: High school or preparatory school graduates who plan to enter the field of naval architecture and marine engineering, who give promise of extraordinary talent and ability, and who are in need of financial assistance. Must be United States citizens.

PROCEDURE: Consideration will be given those eligible students who have completed an application for scholarship for entering freshmen. Applications may be obtained from principals of the accredited high schools of the state of Michigan, or by writing to the Scholarship Office, 2011 Student Activities Building. Selected by the Committee on University Scholarships.

AWARD: \$1,000; may be renewed if high standard of work is maintained, and student continues to study in the Department of Naval Architecture and Marine Engineering.

NUMBER: One freshman award annually.

STEPHEN SPAULDING SCHOLARSHIP

ORIGIN: Established in 1926 by Thomas M. Spaulding, A.B. '02, Litt.D.(hon.) '32, of Washington, D.C., with the gift of funds belonging to his son, Stephen Spaulding, of the Class of 1927, who died while a student in the University.

ELIGIBILITY: Members of the Beta Theta Pi fraternity enrolled in any school or college of the University.

PROCEDURE: Apply to the president of Beta Theta Pi fraternity. Selected by the Office of Financial Aids in conjunction with a special committee.

AWARD: Income of the fund.

NUMBER: One annually.

ANNE E. SHIPMAN STEVENS SCHOLARSHIP

ORIGIN: Established in 1937 by gifts from alumnae and friends in recognition of the service of Mrs. Stevens on the Board of Governors of Martha Cook Building.

ELIGIBILITY: Residents of Martha Cook Building or some other student already on campus distinguished in scholarship, leadership, and character, who has been recommended by the Director of Financial Aids.

PROCEDURE: Apply to the Director of Martha Cook Building. Nominated by a committee consisting of the Director of Financial Aids, the Director of Martha Cook Building, and one representative of the Detroit Association of Martha Cook Alumnae.

AWARD: Partial payment of room and board.

NUMBER: One annually.

WILLIAM W. STOUT SCHOLARSHIP

ORIGIN: Established in 1959 as an endowment fund from the will of William W. Stout.

ELIGIBILITY: Students in the undergraduate schools and colleges who have completed at least one semester on campus.

PROCEDURE: Apply at the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

ELLA L. SWIFT SCHOLARSHIP

ORIGIN: Established in 1934 by bequest of Ella L. Swift, Indianapolis, Indiana.

ELIGIBILITY: Students in the undergraduate schools and colleges who have completed at least one semester on campus.

PROCEDURE: Apply at the Scholarship Office, 2011 Student Activities Building, between January 10 and March 1. Selected by the Committee on University Scholarships.

AWARD: Variable.

NUMBER: Variable.

TOLEDO UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1945 by the University of Michigan Club of Toledo.

ELIGIBILITY: Men and women living in Toledo and its vicinity; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable; considered as a loan, generally, and carries the moral obligation to repay whenever it may be possible.

NUMBER: Variable.

EVELYN A. TRUESDELL AWARD

ORIGIN: Established in 1956 by the University of Michigan Alumnae Club of Wayne, Michigan, in memory of Evelyn Austin Truesdell, A.B. '25.

ELIGIBILITY: Women students from Wayne, Michigan; based on scholarship, character, and need.

PROCEDURE: Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

TUCSON UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1955 by the University of Michigan Club of Tucson, Arizona.

ELIGIBILITY: Students from the Tucson area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

UNION CARBIDE ENGINEERING SCHOLARSHIP

ORIGIN: Established in 1960 by the Union Carbide Educational Fund of New York City, superceding the Union Carbide and Carbon Corporation's scholarship programs established in 1952 and 1953.

ELIGIBILITY: Entering freshmen of good scholastic standing and personal reputation who are recommended by their school authorities, who plan to enroll and continue in the Mechanical, Chemical, or Metallurgical Engineering programs, and who are in need of financial assistance. Students who intend to take co-operative work-study courses are not eligible.

PROCEDURE: Freshmen apply to the Committee on University Scholarships, Scholarship Office, 2011 Student Activities Building, by December 20.

AWARD: \$500; may be renewed for succeeding three years if high standard of scholarship is maintained. Vacancies will be filled by Committee on Engineering Scholarships.

NUMBER: One, plus renewals.

UNIVERSITY BAND MERIT AWARD

ORIGIN: Established in 1941 with the approval of the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled members of the Marching or Concert bands who (1) must participate in all rehearsals and public appearances of the Band unless excused by the conductor and (2) must maintain a C average during the semester in which the award is made.

PROCEDURE: Apply during registration week of the fall semester in Harris Hall. Selected on the basis of auditions and interviews with the conductor which determine (1) scholastic eligibility, (2) musicianship, and (3) responsibility and service. Awarded at the end of the fall and spring semesters.

AWARD: \$40 for participation in the Marching Band for the football season and an additional \$75 if eligible for participation in the Concert Band for the school year; first-chair players of the Concert Band receive \$150 in lieu of the \$75.

NUMBER: 150 for the Marching Band; 95 for the Concert Band.

UNIVERSITY OF MICHIGAN REGENTS-ALUMNI SCHOLARSHIPS

ORIGIN: Established in 1945 by the Board of Regents: (1) to contribute to the development of leadership and productive citizenship in all parts of Michigan by making the University's educational resources more widely available to promising young men and women of the state and (2) to help students of ability who, without assistance, would find it difficult or impossible to secure a university education.

ELIGIBILITY: Graduating seniors in the accredited high schools of Michigan who are residents of Michigan, citizens of the United States, and admissible to the University.

PROCEDURE: Scholarship application forms are distributed through high school administrators during the fall semester by the Committee on University Scholarships. All applicants are required to write the College Boards in December or January of the senior year in high school and to appear for an interview with University alumni. Parents of applicants are requested to file a confidential financial statement.

AWARD: Variable; range in value from a \$50 entrance scholarship to a maximum of \$560 a year. Renewable for the normal length of the degree program in which the student is enrolled.

NUMBER: Each accredited high school in the state is entitled to at least one Regents-Alumni Scholarship provided a qualified graduating senior applies. In addition, 175 awards at large are made annually.

WILLIAM AND PRISCILLA WAGNER SCHOLARSHIP

ORIGIN: Established in 1943 by a bequest of \$25,000 from Ella Wagner Tanner, A.B. '95, of Ann Arbor.

ELIGIBILITY: Needy foreign students who require the assistance of relatively small sums to tide them through a semester or to meet unforeseen contingencies.

PROCEDURE: Apply to the Director of the International Center. Selected by a committee consisting of the Director of the International Center and the Director of Financial Aids.

AWARD: Varies with individual case; an outright grant-in-aid, but carries the moral obligation to repay in whole or in part when possible.

NUMBER: Variable.

WASHINGTON, D.C., UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1952 by the University of Michigan Club of Washington, D.C.

ELIGIBILITY: Students from the Washington, D.C., area; based on scholarship, character, and need.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

YORK, PENNSYLVANIA, UNIVERSITY OF MICHIGAN CLUB SCHOLARSHIP

ORIGIN: Established in 1950 by an initial gift of \$1,000 from the University of Michigan Club of York, Pennsylvania.

ELIGIBILITY: Students recommended by the Club on the basis of scholarship, character, and future promise.

PROCEDURE: No formal application. Nominated by the Club to the Committee on University Scholarships; selected by that committee.

AWARD: Variable.

NUMBER: Variable.

FIELDING H. YOST HONOR AWARDS

ORIGIN: Established in 1941 with the approval of the Regents of The University of Michigan as an encouragement to high scholarship and good citizenship among men and women undergraduate students at the University and in recognition of the many years of faithful service rendered to the University by Fielding H. Yost, for many years football coach of the University, and Director of Athletics from 1921 to 1941, and in his honor.

ELIGIBILITY: Either juniors or seniors who have completed not fewer than five semesters of undergraduate work, or equivalent, at the University. Awarded on the basis of (1) moral character and good citizenship; (2) scholastic ability and intellectual capacity and achievement; (3) physical ability, vigor, and vitality; and (4) capacity and promise of leadership and success.

PROCEDURE: No application; selected by a special committee.

AWARD: When income permits, cash award given. At present, certificate and pin awarded.

NUMBER: One annually.

College of Architecture and Design

(None of these scholarships are available to entering students.)

ALPHA RHO CHI MEDAL

ORIGIN: Established by Alpha Rho Chi, national architectural fraternity.

ELIGIBILITY: Graduating seniors in the Department of Architecture who have (1) shown leadership; (2) given service to their school; and (3) through their personality and attitude given promise of real professional worth.

PROCEDURE: No application. Awarded annually by the fraternity upon recommendation of the architecture faculty in the College of Architecture and Design.

AWARD: The medal.

NUMBER: One annually.

AMERICAN INSTITUTE OF ARCHITECTS MEDAL

ORIGIN: Established by the American Institute of Architects.

ELIGIBILITY: That member of the graduating class of the College of Architecture and Design having a very high standing during the five-year period of study in architecture.

PROCEDURE: No application. Awarded by the American Institute of Architects.

AWARD: The medal.

NUMBER: One annually.

WALTER ANICKA SKETCH PROBLEM PRIZES

ORIGIN: Established by Walter T. Anicka, Architect, to acknowledge outstanding performance in the ability to make design decisions quickly and to present them clearly and accurately in sketch form.

ELIGIBILITY: One award is made to students enrolled in the intermediate design classes and one to those in the advanced design classes. Awarded each semester for the best solution to a two-day sketch problem.

PROCEDURE: No application.

AWARD: \$150 each, payable toward semester fees.

NUMBER: Two each semester.

ARCHITECTURE ALUMNI SCHOLARSHIP

ORIGIN: Supported by annual gifts from architecture alumni.

ELIGIBILITY: Applicants for graduate study in architecture, holders of the degree of Bachelor of Architecture, or equivalent, from an accredited school in the United States.

PROCEDURE: Application forms obtained from the Chairman of the Department of Architecture. Must be completed by February 15.

AWARD: \$3,500.

NUMBER: One annually.

GEORGE G. BOOTH TRAVELING FELLOWSHIP IN ARCHITECTURE

ORIGIN: Established in 1923 by a gift from George G. Booth, A.M. (*hon.*) '25, of Detroit.

ELIGIBILITY: Candidate must (1) be under thirty years of age, (2) have high scholastic records, and (3) either be a graduate of the College of Architecture and Design of The University of Michigan or have been in residence and have practically completed the last two years of the architectural degree course. He must also complete all of the requirements and be recommended for the degree before receiving the stipend.

PROCEDURE: The award is made on the basis of a competitive presentation in a specified form, including written statements and drawings. Application forms may be obtained from the Chairman of the Department of Architecture and should be returned to the chairman by February 15. Selected by that department.

AWARD: \$1,500.

NUMBER: One.

DAVERMAN MERIT AWARD IN ARCHITECTURE

ORIGIN: Established in 1961 by J. and G. Daverman Company, Grand Rapids architectural, engineering, and planning firms.

ELIGIBILITY: Awarded to an outstanding senior student in the College of Architecture and Design for graduate study in design, structures, mechanical equipment, planning, or research.

PROCEDURE: Applications due February 15. Selected by the Department of Architecture faculty.

AWARD: \$1,000.

NUMBER: One annually.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: (1) Enrollment in the College of Architecture and Design and (2) completion of two semesters in residence.

PROCEDURE: Obtain application forms from the office of the Dean of the College of Architecture and Design. Selections are made by respective department chairmen.

AWARD: Variable.

NUMBER: Variable.

JANE HIGBIE AWARD

ORIGIN: Established in 1937 by a gift from Professor and Mrs. Henry H. Higbie of Ann Arbor, as a permanent memorial to their daughter, Jane H. Higbie, a student in the College of Architecture and Design from 1934 until her death in 1937.

ELIGIBILITY: Students in the College of Architecture and Design who demonstrate originality in workmanship, but not merely high scholarship, no later than the second year in required courses in design.

PROCEDURE: No application. Selected by a committee of five, most of whom are to be from the teaching staff in the Department of Art of the College of Architecture and Design.

AWARD: \$100.

NUMBER: One or two, annually.

IKTINOS ALUMNI SCHOLARSHIP

ORIGIN: Established by the Iktinos Chapter of Alpha Rho Chi, national professional fraternity.

ELIGIBILITY: Awarded to that individual enrolled in architecture who has achieved the highest scholastic standing during the freshman year.

PROCEDURE: Selected by the Department of Architecture faculty.

AWARD: Usually equivalent to semester fees, either in part or in full, depending upon the amount available.

NUMBER: One annually.

ALBERT KAHN SCHOLARSHIP

ORIGIN: Established in 1955 by Albert Kahn Associated Architects and Engineers, Inc., of Detroit.

ELIGIBILITY: Applicants must be graduates in architecture of the College of Architecture and Design at The University of Michigan or graduates of other accredited schools.

PROCEDURE: Application forms may be obtained from the Chairman of the Department of Architecture. They must be returned to the chairman by February 15. The recipient will be named by the faculty in architecture for proved ability and promise and in consideration of financial need.

AWARD: \$1,000.

NUMBER: One annually.

OLIVE COX SLEEPER MEMORIAL FUND

ORIGIN: Established by Olive Cox Sleeper, FAIA, wife of Harold R. Sleeper.

ELIGIBILITY: Undergraduate or graduate students needing financial assistance.

PROCEDURE: Apply to the Chairman of the Department of Architecture.

AWARD: Variable.

NUMBER: Variable.

ARTHUR C. TAGGE SCHOLARSHIP

ORIGIN: Established in 1943 by bequest of Arthur C. Tagge, B.S.(E.E.) '97.

ELIGIBILITY: Upperclassmen, preferably seniors, in the College of Architecture and Design who have demonstrated unusual aptitude and ability in architecture, design, or landscape architecture.

PROCEDURE: Apply by letter to the Dean of the College of Architecture and Design before June 1. Selected by a committee headed by the Dean.

AWARD: \$325.

NUMBER: Two annually.

School of Business Administration

ACTUARIAL SCIENCE FELLOWSHIPS FOR GRADUATE STUDENTS

ORIGIN: Established in 1955 by a group of life insurance companies.

ELIGIBILITY: M.B.A. candidates specializing in actuarial science; Ph.D. candidates planning to teach actuarial science.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before February 15.

AWARD: Variable.

NUMBER: Variable.

BUSINESS ADMINISTRATION GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

ORIGIN: The Development Council and other sources.

ELIGIBILITY: M.B.A. or Ph.D. candidates.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: Variable.

BUSINESS ADMINISTRATION STUDENT COUNCIL FELLOWSHIP

ORIGIN: Established in 1962 with contributions from the Student Council of the School.

ELIGIBILITY: Students in business administration; awarded on the basis of scholarship and financial need.

PROCEDURE: Apply to the Scholarship Committee of the School of Business Administration before March 1.

AWARD: Variable to \$800.

NUMBER: Two.

CONTINENTAL OIL COMPANY FELLOWSHIP IN MARKETING

ORIGIN: Established in 1957 by the Continental Oil Company.

ELIGIBILITY: Doctoral student whose dissertation will relate to the general subject of marketing research.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: \$2,200.

NUMBER: One.

FELLOWSHIP IN QUANTITATIVE METHODS

ORIGIN: Established in 1962 by contributions from individuals and corporations.

ELIGIBILITY: Graduate students majoring in the field of quantitative methods.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: \$1,000.

NUMBER: One.

JOSEPH FREEDMAN FELLOWSHIP

ORIGIN: Established in 1962 in honor of Joseph Freedman.

ELIGIBILITY: B.B.A. or M.B.A. candidates; awarded on basis of need and scholarship.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: One.

BURTON ARNOLD FRENCH SCHOLARSHIP

ORIGIN: Established by the Central Fibre Products Co. and Local 437 United Auto Workers Union in 1950 and contributed annually.

ELIGIBILITY: Graduate or undergraduate students majoring in labor relations.

PROCEDURE: Apply to the Chairman, Scholarship Committee, Industrial Relations Faculty, Graduate School of Business Administration, before March 1.

AWARD: \$300 for the academic year.

NUMBER: One.

GENERAL ELECTRIC FELLOWSHIP IN MARKETING ECONOMICS

ORIGIN: Established in 1959 by the trustees of the General Electric Educational and Charitable Fund.

ELIGIBILITY: Students doing graduate study in marketing economics.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: One.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: For students in business administration; awarded on the basis of scholarship and financial need.

PROCEDURE: Apply to the Scholarship Committee of the School of Business Administration before March 1.

AWARD: Variable.

NUMBER: Variable.

JAMES W. GLOVER SCHOLARSHIP IN ACTUARIAL MATHEMATICS

ORIGIN: Established in 1938 by former students of the late Professor Emeritus James W. Glover, B.L. '92, in recognition and appreciation of the long and valuable service which he rendered to the University and its students.

ELIGIBILITY: Students in either the Horace H. Rackham School of Graduate Studies or the Graduate School of Business Administration who (1) must be in residence at The University of Michigan; (2) must complete, by the end of the year of application, all requirements for the Bachelor of Arts or the Bachelor of Business Administration degree, including the prerequisites for Mathematics 621; and (3) must, under the scholarship, elect Mathematics 621 and 622.

PROCEDURE: Apply to the Chairman of the Department of Mathematics of the College of Literature, Science, and the Arts between December 1 and February 15. Recommended by a committee in the Department of Mathematics to the Executive Board of the Graduate School; selected by the Executive Board.

AWARD: Equivalent to semester fees in either the Horace H. Rackham School of Graduate Studies or the Graduate School of Business Administration.

NUMBER: One.

CLARE E. GRIFFIN GRADUATE FELLOWSHIPS IN MARKETING AND BUSINESS ECONOMICS

ORIGIN: Established in 1957 by friends, associates, and former students of Professor Clare E. Griffin.

ELIGIBILITY: Doctoral students concentrating in marketing and business economics.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: Variable.

CLARENCE J. HICKS MEMORIAL FELLOWSHIP IN INDUSTRIAL RELATIONS

ORIGIN: Established in 1946 by Industrial Relations Counselors, Inc., of New York City, in memory of Clarence J. Hicks, LL.D.(hon.) '37.

ELIGIBILITY: Graduates of any college or university in the United States or Canada who are nominated within five years after graduation, exclusive of any period of active service in the armed forces of the United States or that of any ally of the United States; recipient must give promise of a successful career as an executive or teacher in industrial relations.

PROCEDURE: Apply to the Chairman, Scholarship Committee, Industrial Relations Faculty, Graduate School of Business Administration, before March 1.

AWARD: \$1,000 for the academic year.

NUMBER: One.

INTERNATIONAL BUSINESS FELLOWSHIPS

ORIGIN: Established in 1962 by a grant from the Ford Foundation.

ELIGIBILITY: Graduate students concentrating in the field of international business.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: Variable.

KAISER ALUMINUM AND CHEMICAL CORPORATION FELLOWSHIP

ORIGIN: Established in 1958 by the Kaiser Aluminum and Chemical Corporation.

ELIGIBILITY: Doctoral student specializing in marketing.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: \$1,500 plus semester fees.

NUMBER: One.

L. L. LAING GRADUATE FELLOWSHIP IN ACCOUNTING

ORIGIN: Established in 1963 in honor of L. L. Laing.

ELIGIBILITY: An M.B.A. candidate in the last year of his program, concentrating in accounting, possessing ability and promise, and in need of financial assistance.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: \$1,000.

NUMBER: One.

MICHIGAN COLLEGE SCHOLARSHIPS

ORIGIN: Established and maintained from annual appropriations by The University of Michigan.

ELIGIBILITY: Students recommended by each of the colleges in the state of Michigan accredited by the North Central Association of Colleges and Secondary Schools whose applications for candidacy for the degree of Master of Business Administration are approved by the Graduate School of Business Administration.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Equivalent to semester fees.

NUMBER: One to each college as described above.

NATIONAL CITY BANK OF CLEVELAND SCHOLARSHIPS

ORIGIN: Established by the National City Bank of Cleveland in 1961.

ELIGIBILITY: Graduate student interested in finance.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: Variable.

WILLIAM A. PATON GRADUATE FELLOWSHIPS IN ACCOUNTING

ORIGIN: Established in 1956 by friends of Professor Paton.

ELIGIBILITY: M.B.A. and Ph.D. candidates concentrating in accounting.

PROCEDURE: No formal application. Nomination from designated sponsors.

AWARD: Variable.

NUMBER: Variable.

RCA SCHOLARSHIP

ORIGIN: Established by the Radio Corporation of America in 1955 and maintained by annual contributions.

ELIGIBILITY: Graduates or undergraduates concentrating in industrial relations. Selected on basis of merit and maturity. An appointee is eligible for reappointment.

PROCEDURE: Apply to the Chairman, Scholarship Committee, Industrial Relations Faculty, Graduate School of Business Administration, before March 1.

AWARD: \$800 for the academic year.

NUMBER: One.

ROBERT G. RODKEY GRADUATE FELLOWSHIPS IN BANKING AND FINANCE

ORIGIN: Established in 1955 by former students, friends, and faculty colleagues of Robert G. Rodkey who was Professor of Banking and Investments from 1928 until his retirement in 1954.

ELIGIBILITY: An interest in and potentiality for college teaching in the finance and banking field.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1 setting forth objectives, qualification, needs, and references. Awards are made by a committee composed of finance faculty and Mr. F. Bradley Case.

AWARD: Variable; renewable.

NUMBER: Variable.

EDWARD W. SCHMIDT MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1961 by family and friends of the late Edward W. Schmidt.

ELIGIBILITY: Students in business administration.

PROCEDURE: Apply to the Scholarship Committee of the School of Business Administration before March 1.

AWARD: \$300.

NUMBER: One.

ENSIGN LIONEL J. TACHNA MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1943 by gifts from the family and friends of Ensign Lionel J. Tachna, M.B.A. '39, who was graduated with distinction from the Graduate School of Business Administration and, entering the United States Navy at the outbreak of World War II, lost his life in the battle of the Coral Sea in 1942.

ELIGIBILITY: Deserving candidates for the degree Master of Business Administration who require financial assistance.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: Variable.

NUMBER: One.

UNITED STATES STEEL FOUNDATION FELLOWSHIP

ORIGIN: Established by gifts from the United States Steel Foundation.

ELIGIBILITY: Ph.D. candidates interested in teaching in an area of business administration, or fitted by ability, character, and loyalties to fill a responsible position in industry, education, government, or other fields.

PROCEDURE: Apply to the Scholarship Committee of the Graduate School of Business Administration before March 1.

AWARD: \$3,000; renewable for one year.

NUMBER: One.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled seniors in the School of Business Administration, residents of Michigan, who have high scholastic records and need financial assistance.

PROCEDURE: Apply to the Scholarship Committee of the School of Business Administration before March 1.

AWARD: Equivalent to semester fees.

NUMBER: One in the School of Business Administration.

School of Dentistry

(None of these scholarships are available to entering students.)

ALPHA OMEGA FRATERNITY PRIZE

ORIGIN: Established by the Alpha Omega fraternity to honor a graduating senior in the School of Dentistry.

ELIGIBILITY: That person in the graduating dental class who has attained the highest scholastic record.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: A medal and a certificate.

NUMBER: One annually.

AMERICAN ACADEMY OF DENTAL MEDICINE AWARD

ORIGIN: Established by the American Academy of Dental Medicine to honor an outstanding senior in the School of Dentistry.

ELIGIBILITY: Members of the graduating class who have shown the greatest proficiency in the field of dental medicine.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: Certificate of merit and a five-year subscription to the *Journal of Dental Medicine*.

NUMBER: One annually.

AMERICAN SOCIETY OF DENTISTRY FOR CHILDREN AWARD

ORIGIN: Established in 1937 by the American Society of Dentistry for Children for two outstanding seniors in the School of Dentistry.

ELIGIBILITY: The member of the graduating class who has shown the greatest ability in the theory and clinical practice of dentistry for children.

PROCEDURE: Recipient selected by the staff in the Department of Dentistry for Children.

AWARD: Certificate, one year's membership in the Society, and one year's subscription to its journal.

NUMBER: One annually.

R. W. BUNTING STUDY CLUB AWARD IN PERIODONTIA

ORIGIN: Established in 1961 by the R. W. Bunting Study Club, of Ann Arbor, as a stimulus to the interest of undergraduate students in the field of periodontia.

ELIGIBILITY: To the outstanding junior student in clinical periodontia.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: \$100.

NUMBER: One annually.

RUSSELL W. BUNTING AWARD FOR HYGIENISTS

ORIGIN: Established by the Michigan State Dental Hygienists Association in recognition of the loyal support Dr. Bunting has given to their organization.

ELIGIBILITY: One graduating dental hygienist whose professional conduct and scholarship have been the highest in the class.

PROCEDURE: Recipient selected by the School of Dentistry.

AWARD: A dental hygiene pin specially designed for the recipient of this award.

NUMBER: One annually.

ALLEN COLLINS AWARD IN ORTHODONTICS

ORIGIN: Established in 1959 by Dr. Allen Collins of Detroit.

ELIGIBILITY: The senior dental student who has demonstrated the greatest interest and proficiency in the field of orthodontics.

PROCEDURE: Selected by the staff of the Department of Orthodontics.

AWARD: \$100.

NUMBER: One annually.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students of high scholastic standing and financial need who have been enrolled in the School of Dentistry for a minimum of one semester.

PROCEDURE: Apply to the Dean of the School of Dentistry during the second semester. Selected by the School of Dentistry.

AWARD: Variable.

NUMBER: Variable.

GOLD FOIL ACHIEVEMENT AWARD

ORIGIN: Presented by the American Academy of Gold Foil Operators.

ELIGIBILITY: To the student demonstrating the greatest interest and excellence in gold foil procedures during his undergraduate course in dentistry.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: Certificate.

NUMBER: One annually.

INTERNATIONAL COLLEGE OF DENTISTS AWARD

ORIGIN: Presented by the International College of Dentists.

ELIGIBILITY: To the graduating senior showing the greatest development and growth during his years in the School of Dentistry.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: A bronze plaque.

NUMBER: One annually.

JOHN HARVEY KELLOGG MEMORIAL FELLOWSHIPS

ORIGIN: Established in 1959 by a gift from the trustees of the estate of Dr. John Harvey Kellogg.

ELIGIBILITY: Graduate dental students in the W. K. Kellogg Foundation Institute: Graduate and Postgraduate Dentistry who are interested in a career in dental education and research and who have high scholastic records.

PROCEDURE: Apply to the Director of the W. K. Kellogg Foundation Institute by January 1 of each year.

AWARD: \$1,000.

NUMBER: Two annually.

ALBERT LELAND LeGRO DENTAL RESEARCH FELLOWSHIP

ORIGIN: Established in 1948 by a gift from Golden F. LeGro of Grosse Pointe Farms, Michigan, in memory of her husband, Dr. Albert Leland LeGro, D.D.S. '95.

ELIGIBILITY: Students holding the degree Doctor of Dental Surgery who wish to do further research in dentistry.

PROCEDURE: No application. Selected by the School of Dentistry.

AWARD: Variable, depending on the income of the fund.

NUMBER: One, when a qualified candidate is found.

P. C. LOWERY AWARD IN COMPLETE DENTURE PROSTHESIS

ORIGIN: Established in 1936 by Dr. P. C. Lowery, D.D.S. '10, M.S.(hon.) '40, of Detroit.

ELIGIBILITY: Senior dental students who are outstanding in proficiency in complete denture prosthesis.

PROCEDURE: No application. Chosen by the staff of the Complete Denture Service, School of Dentistry, about May 1.

AWARD: \$100 annually.

NUMBER: One or two annually.

CHALMERS J. LYONS CLUB AWARD IN ORAL SURGERY

ORIGIN: Established in 1961 by the Chalmers J. Lyons Academy of Oral Surgery, of Grand Rapids.

ELIGIBILITY: To a member of the senior class who has achieved the greatest proficiency in the didactic and clinical study of oral surgery during his undergraduate curriculum.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: \$25.

NUMBER: One annually.

ARTHUR H. MERRITT AWARD IN PERIODONTIA

ORIGIN: Established in 1944 with the gift of \$5,000 from Dr. Arthur H. Merritt, M.S.(hon.) '38, of New York City.

ELIGIBILITY: Members of the senior dental class who have shown the greatest interest and proficiency in the special field of periodontia.

PROCEDURE: No application. Selected by the staff of the Periodontia Department.

AWARD: Variable.

NUMBER: Variable.

MICHIGAN SOCIETY OF DENTISTRY FOR CHILDREN AWARD

ORIGIN: Established by the Michigan Society of Dentistry for Children for one outstanding senior in the School of Dentistry.

ELIGIBILITY: One member of the graduating class who has shown the greatest ability in the theory and clinical practice of dentistry for children.

PROCEDURE: Recipient selected by staff in the Department of Dentistry for Children.

AWARD: \$25.

NUMBER: One annually.

EDWARD C. AND NELLIE WHITE MILLS AWARD

ORIGIN: Established in 1940 by a gift of \$1,000 from Edward C. Mills, D.D.S. '89, of Columbus, Ohio.

ELIGIBILITY: That senior dental student who writes the best thesis on some subject related to the science and art of dentistry or some collateral subject.

PROCEDURE: Competition announced and posted on the bulletin board of the main office of the School of Dentistry during the second semester. Recipient chosen by the Library Committee of the School of Dentistry.

AWARD: Cash award; determined annually.

NUMBER: One annually.

GEORGE R. MOORE MEMORIAL AWARD

ORIGIN: Established in 1954 by the Michigan Orthodontic Alumni Association.

ELIGIBILITY: The senior dental student with the best over-all undergraduate record in orthodontics.

PROCEDURE: Selected by the staff of the Department of Orthodontics.

AWARD: \$100.

NUMBER: One annually.

MOSBY PUBLISHING COMPANY AWARD

ORIGIN: Established by the C. V. Mosby Company, publishers, to honor the outstanding seniors of the School of Dentistry.

ELIGIBILITY: Five senior dental students showing the greatest scholastic ability and promise for future contributions to dentistry.

PROCEDURE: No application. Awarded by the Executive Committee of the School of Dentistry.

AWARD: Award winners may select any book from the Mosby collection which does not exceed \$30 in cost.

NUMBER: Five annually.

CLIFFORD T. NELSON AWARD

ORIGIN: Established by Dr. Clifford T. Nelson of Grand Rapids.

ELIGIBILITY: The senior dental student showing the greatest interest and proficiency in direct inlay work.

PROCEDURE: Selected by the staff of the Department of Operative Dentistry.

AWARD: \$100.

NUMBER: One annually.

FLOYD A. PEYTON AWARD

ORIGIN: Established in 1962 by a group of teachers of dental materials in dental schools throughout the United States and Canada.

ELIGIBILITY: To the undergraduate student demonstrating the greatest interest and excellence in dental materials.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: Variable.

NUMBER: One annually.

R. F. SOMMER STUDY CLUB AWARD IN ENDODONTICS

ORIGIN: Presented by the R. F. Sommer Endodontic Study Club.

ELIGIBILITY: To the senior student who in the opinion of the staff has demonstrated the greatest excellence and promise of future success in the field of endodontics.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: \$50 and a certificate of merit.

NUMBER: One annually.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled senior dental students who (1) are residents of Michigan; (2) have high scholastic records; and (3) need financial assistance.

PROCEDURE: Apply to the Dean of the School of Dentistry during the spring semester of the junior year. Selected by the Executive Committee of the School of Dentistry.

AWARD: Equivalent to semester fees.

NUMBER: Two in the School of Dentistry.

**FRANCIS B. VEDDER SOCIETY OF CROWN AND BRIDGE
PROSTHODONTICS AWARD**

ORIGIN: Established in 1960 by the Francis B. Vedder Society of Crown and Bridge Prosthodontics.

ELIGIBILITY: To the senior student who has demonstrated the greatest excellence and interest in the field of crown and bridge prosthodontics.

PROCEDURE: No application. Awarded by the School of Dentistry.

AWARD: A certificate and \$25.

NUMBER: One annually.

MAX B. WINSLOW AWARD IN PERIODONTICS

ORIGIN: Established in 1957 by Dr. Max B. Winslow of Detroit.

ELIGIBILITY: The senior dental student showing the greatest interest and progress in the field of periodontics.

PROCEDURE: Selected by the staff of the Department of Periodontics.

AWARD: \$100.

NUMBER: One annually.

School of Education

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in the School of Education. Awarded on the basis of scholarship and financial need.

PROCEDURE: Apply to the Associate Dean of the School of Education. Selected by a committee headed by the Associate Dean.

AWARD: Variable.

NUMBER: Variable.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled seniors in the School of Education who are residents of Michigan, who have high scholastic records, and who need financial assistance.

PROCEDURE: Apply to the Associate Dean of the School of Education during the second semester of the junior year or the early part of the first semester of the senior year. Selected by a committee headed by the Associate Dean.

AWARD: Equivalent to semester fees.

NUMBER: Two in the School of Education.

College of Engineering

(Graduate students in engineering should consult pages 78 through 99 of this bulletin. Entering freshmen should apply to the Committee on University Scholarships. See pages 5 and 6.)

ALCOA FOUNDATION SCHOLARSHIP

ORIGIN: Established in 1962 by the Aluminum Company of America.

ELIGIBILITY: Students enrolled in the Electrical and Metallurgical Engineering Programs.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$625.

NUMBER: Two.

AMERICAN BUREAU OF SHIPPING PRIZE

ORIGIN: Established in 1924 by the American Bureau of Shipping of New York City.

ELIGIBILITY: Graduating senior in the Department of Naval Architecture and Marine Engineering with the highest grade-point average during the junior and senior years. Must be a United States citizen.

PROCEDURE: Selection made by the Department of Naval Architecture and Marine Engineering.

AWARD: \$100 and a certificate.

NUMBER: One.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS—NORTH-EASTERN MICHIGAN SECTION SCHOLARSHIP—LOAN FUND

ORIGIN: Established in 1959 by the Northeastern Michigan Section, American Institute of Electrical Engineers, in the form of a revolving fund to be replenished by the honor-bound repayment of loans by the recipients within two years after graduation.

ELIGIBILITY: Senior electrical engineering student who (1) is in need of financial aid; (2) has a grade-point average of 2.5 or better; and (3) is a resident of Michigan, preferably in the counties of Alcona, Alpena, Arenac, Bay, Cheboygan, Clare, Crawford, Genesee, Gladwin, Gratiot, Huron, Iosco, Isabella, Lapeer, Midland, Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Saginaw, Sanilac, Shiawassee, or Tuscola.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable; maximum of semester fees, noninterest bearing loan.

NUMBER: Variable.

AMERICAN SOCIETY FOR METALS FOUNDATION FOR EDUCATION AND RESEARCH METALLURGICAL UNDERGRADUATE SCHOLARSHIP

ORIGIN: Established in 1953 by the American Society for Metals Foundation for Education and Research.

ELIGIBILITY: Student enrolled in the Metallurgical Engineering Program (sophomore preferred). Must have good scholastic record.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: One.

ASHKINS FUND AWARD

ORIGIN: Established in 1949 by a bequest of Nathan T. Ashkins, B.C.E. '13, of Los Angeles.

ELIGIBILITY: Income from fund to be paid to an outstanding scholar for a thesis, applied toward a scholarship, or used in some similar manner for a deserving student in engineering.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: One, when income permits.

DAVID ASPLAND AWARD

ORIGIN: Established in 1956 by a bequest from Herbert Douglas Aspland, B.S.E. '18, in memory of his father, David Aspland. Income may be used for scholarships, loans, or grants.

ELIGIBILITY: Junior and senior engineering students who are deserving and needy.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

GEORGE H. BENZENBERG AWARD

ORIGIN: Established in 1920 by a gift of George H. Benzenberg, '67E., D.Eng.(hon.) '12, originally used as a loan fund. A portion of this fund is now used to provide scholarships.

ELIGIBILITY: Undergraduates in the College of Engineering who have completed the freshman year with an honor-point average of 3.0 or better and who have financial need.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

JOSEPH BOYER SCHOLARSHIP

ORIGIN: Established in 1938 by Mrs. Henry E. Candler of Grosse Pointe, Michigan, in memory of her father, Joseph Boyer.

ELIGIBILITY: Junior and senior engineering students who (1) have been residents at the University for at least one year prior to the date of application; (2) are partly or entirely self-supporting; and (3) are citizens of the United States.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

**JOSEPH ALDRICH BURSLEY MECHANICAL ENGINEERING
AWARD**

ORIGIN: Established in 1953 by funds available from the Joseph A. Bursley Endowment Fund.

ELIGIBILITY: Senior student in the Department of Mechanical Engineering who shows, by his scholastic record and his leadership in extracurricular activities, unusual promise of developing into a leader in his profession and his community.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: One annually.

ROY D. CHAPIN SCHOLARSHIP

ORIGIN: Established in 1957 by a bequest of Mrs. Chapin, of Grosse Pointe Farms, Michigan.

ELIGIBILITY: Deserving sophomore, junior, or senior engineers in highway engineering or highway transportation.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

CHEMSTRAND CORPORATION SCHOLARSHIP

ORIGIN: Established in 1957 by The Chemstrand Corporation of Decatur, Alabama.

ELIGIBILITY: Superior and deserving senior student in chemical engineering, a citizen of the United States, and recommended by the department.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: One.

CONSUMERS POWER COMPANY ENGINEERING SCHOLARSHIP

ORIGIN: Established in 1956 by the Consumers Power Company.

ELIGIBILITY: Student with good scholarship, character, and financial need, above the freshman year, preferably in the Electrical or the Mechanical Engineering Program.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$750. May be renewed if high standard of work is maintained and the Committee on Engineering Scholarships approves.

NUMBER: One annually, plus any renewals.

COOLEY ENGINEERING ESSAY PRIZE

ORIGIN: Established in 1945 through bequest of the late Dean Mortimer E. Cooley, M.E.(hon.) '85, of Ann Arbor, in memory of his father, Albert Blake Cooley, his mother, Achsah Griswold Cooley, and their children.

ELIGIBILITY: Students in the College of Engineering who intend to make engineering their profession.

PROCEDURE: Awards given for best essays on an assigned topic as announced by the Cooley Essay Committee.

AWARD: Variable in amount.

NUMBER: Variable.

J. B. AND MARY H. DAVIS SCHOLARSHIP

ORIGIN: Established in 1922 by a gift of \$10,000 from Charles B. Davis, B.S.(C.E.) '01, of Birmingham, Alabama, in memory of his mother, Mary H. Davis, and his father, Joseph B. Davis, for many years Professor of Geodesy and Surveying at The University of Michigan. Originally instituted as a loan fund, with provision later made for using the income of the fund for the support of scholarships, fellowships, and prizes for students of geodesy and surveying.

ELIGIBILITY: Students of either sex who are enrolled in a class of geodesy or surveying in the College of Engineering and who are worthy of and in need of assistance.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15. Application must be accompanied by a letter of recommendation from the Professor of Geodetic Engineering.

AWARD: Variable.

NUMBER: Variable.

CORNELIUS AND MARGARET DONOVAN SCHOLARSHIP

ORIGIN: Established in 1922 by bequest of Cornelius Donovan, C.E. '72, Eng.D.(hon.) '12, of New Orleans, Louisiana. The fund was increased in 1939 by an additional bequest from Miss Margaret Donovan, sister of Mr. Donovan.

ELIGIBILITY: Engineering students who (1) have completed a minimum of thirty hours of work at The University of Michigan with a minimum honor-point average of 2.5; (2) have at least one semester left before earning a degree; (3) are partly or entirely self-supporting; and (4) are citizens of the United States.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

DOUGLAS AIRCRAFT SCHOLARSHIP

ORIGIN: Established in 1946 by the Douglas Aircraft Company, Inc., of Santa Monica, California.

ELIGIBILITY: Outstanding seniors in the Aeronautical, Electrical, or Mechanical Engineering Program. Must be United States citizens "who can best benefit by this financial assistance," and recommended by the department concerned.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

DOW CHEMICAL COMPANY SCHOLARSHIP IN METALLURGICAL ENGINEERING

ORIGIN: Established in 1959 by the Dow Chemical Company of Midland, Michigan.

ELIGIBILITY: Worthy, deserving engineering student with high scholastic standing in the Metallurgical Engineering Program and recommended by the department.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: One.

FOUNDRY EDUCATIONAL FOUNDATION SCHOLARSHIPS

ORIGIN: Established in 1951 by the Foundry Educational Foundation of the American Foundrymen's Association.

ELIGIBILITY: Students enrolled in engineering who are especially interested in foundry work.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable; usually \$200 for the year.

NUMBER: Variable.

ALVAH B. AND SALOME K. FREDERICK SCHOLARSHIP

ORIGIN: Established in 1956 by bequest of A. B. Frederick, B.S.M.E. '14.

ELIGIBILITY: Worthy, needy, and deserving students in the College of Engineering.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

GEORGE A. FULLER COMPANY AWARD

ORIGIN: Established in 1958 by a gift from the George A. Fuller Company, followed by additional gifts from the same company, the Beinecke Foundation, and Mr. Lou R. Crandall, B.S.C.E. '17, and Mrs. Marguerite M. Crandall, A.B. '18.

ELIGIBILITY: Award provides a scholarship for "The most needy Tau Beta Pi Civil Engineering student during his senior year."

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: One.

GANNETT SCHOLARSHIP FOR ENGINEERING STUDENTS

ORIGIN: Established in 1953 by a gift from Joseph K. and Mrs. Gannett of Chagrin Falls, Ohio, to assist needy and well-qualified students to attend the College of Engineering.

ELIGIBILITY: Students enrolled in engineering; selection based on character, United States citizenship, scholarship, and need.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

ROBERT CAMPBELL GEMMELL MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1926 by Lillian Gemmell Boal of Oakland, California, by the gift to the University of \$10,000 in memory of her brother, Robert Campbell Gemmell, B.S. (C.E.) '84, C.E. '95, M.Eng.(hon.) '13.

ELIGIBILITY: Freshman or sophomore engineering students of general worthiness and deserving character who (1) have completed a minimum of fifteen hours of work at The University of Michigan with a minimum general academic average of 2.5 honor points; (2) are partly or entirely self-supporting; and (3) are citizens of the United States.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable; usually one per year.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in the College of Engineering; awards made on the basis of scholarship and financial need.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

MILDRED WEED GOODRICH SCHOLARSHIP

ORIGIN: Established in 1960 by bequest of Mildred W. Goodrich, wife of Ernest P. Goodrich, B.S.C.E. '98.

ELIGIBILITY: Worthy, needy, and deserving students in the College of Engineering. May be used for graduate student scholarships.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

CLARENCE E. GROESBECK MEMORIAL SCHOLARSHIPS

ORIGIN: Established in 1954 by bequest of Alice B. Groesbeck, in memory of her husband, Clarence E. Groesbeck, B.S.E.E. '98.

ELIGIBILITY: Worthy, needy, and deserving students in the College of Engineering.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

HARRIET EVELEEN HUNT SCHOLARSHIPS

ORIGIN: Established in 1936 by Ormond E. Hunt, B.S.(Mech.E.) '07, M.E. (*hon.*) '32, of Detroit, as a memorial to his mother.

ELIGIBILITY: Engineering students who (1) have completed at least forty-five semester hours at the University with a minimum academic average of 2.5 honor points; (2) are partly or entirely self-supporting; and (3) are citizens of the United States.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

JOHNSON SERVICE COMPANY STUDENT AWARDS

ORIGIN: Established in 1955 by the Johnson Service Company of Milwaukee.

ELIGIBILITY: Students entering the senior year in the Industrial Engineering Program, who indicate a desire to make a career in sales engineering.

Selection based upon personality and appearance, scholarship, leadership, and need. May be either a United States or a Canadian citizen.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: Two.

ALBERT KAHN SCHOLARSHIP

ORIGIN: Established in 1941 by a gift from the Associated Architects and Engineers, Inc., of Detroit, through Albert Kahn.

ELIGIBILITY: Students of engineering in their sixth semester of residence who have financial need and who have made outstanding academic records especially in courses stressing mechanical and electrical equipment for buildings.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

A. A. KUCHER SCHOLARSHIP IN NUCLEAR ENGINEERING

ORIGIN: Established in 1956 by Dr. A. A. Kucher, D.Eng.(hon.) '54.

ELIGIBILITY: Needy students with good academic records who expect to follow careers in nuclear engineering. Graduate students may be chosen if no undergraduates are available.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: One.

WILLIAM COLON LEMON FUND SCHOLARSHIP

ORIGIN: Established in 1958 by bequest of the late Mrs. Lettie Wisner of Corunna, Michigan, in memory of her son, William Colon Lemon, B.S.C.E. '18.

ELIGIBILITY: Worthy and needy civil engineering students recommended by the Department of Civil Engineering.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

LIEUTENANT FRANCIS BROWN LOWRY SCHOLARSHIP

ORIGIN: Established in 1946 by bequest of Gertrude French of Rockford, Illinois, in memory of Lieutenant Francis Brown Lowry, B.S.(Mech.E.) '17, who attended the College of Engineering at The University of Michigan and who was killed in 1918 in World War I.

ELIGIBILITY: Engineering students who (1) have completed a minimum of thirty hours of work at the University with a minimum academic average of 2.5 honor points; (2) are partly or entirely self-supporting; and (3) are citizens of the United States.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: One or more annually.

LUBRIZOL SCHOLARSHIP IN CHEMICAL ENGINEERING

ORIGIN: Established in 1958 by the Lubrizol Foundation of Cleveland, Ohio.

ELIGIBILITY: Junior or senior student in the Chemical or Mechanical Engineering Program, recommended by the departments, who shows himself to be deserving by his ability and need of financial aid.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$400.

NUMBER: Two.

SIMON MANDLEBAUM SCHOLARSHIP

ORIGIN: Established in 1929 by a bequest of \$60,000 from Mary S. Mandelle (Mandlebaum) of Detroit, in memory of her father, Simon Mandlebaum.

ELIGIBILITY: Men students who (1) have enrolled in the College of Engineering or in the College of Literature, Science, and the Arts for at least one year prior to the date of application; and (2) are citizens of the United States. Character, need, and scholarship considered in the order named.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable, about \$500 or \$600.

NUMBER: Three annually in the College of Engineering.

MARATHON OIL COMPANY SCHOLARSHIPS

ORIGIN: Established in 1956 by the Aurora Gasoline Company of Detroit.

ELIGIBILITY: Sophomores enrolled in either the Chemical Engineering Program or the Science Engineering Program. High scholastic standing and evidence of need are necessary.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500 per year for in-state students; \$1,000 per year for out-of-state students. Scholarship may be renewed for junior and senior years if committee feels that satisfactory requirements are maintained.

NUMBER: Three, plus renewals.

MICHIGAN ASSOCIATION OF CIVIL ENGINEERS AND LAND SURVEYORS SCHOLARSHIP

ORIGIN: Established in 1962 by Michigan Association of Civil Engineers and Land Surveyors in Private Practice, of Detroit.

ELIGIBILITY: Junior student in civil engineering or geodesy and surveying. Must have been a resident of the state of Michigan prior to his enrollment in the College of Engineering.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: One.

ARTHUR B. MODINE TAU BETA PI SCHOLARSHIP

ORIGIN: Established in 1955 by a gift from Arthur B. Modine, '08E, of Racine, Wisconsin.

ELIGIBILITY: Students who are members of Tau Beta Pi and who have financial need.

PROCEDURE: Selected by the Committee on Engineering Scholarships upon recommendations by officers of the Tau Beta Pi Chapter and the Faculty Advisory Board.

AWARD: Variable.

NUMBER: Variable.

WILLIAM J. OLCOTT SCHOLARSHIPS

ORIGIN: Established in 1916 by a gift from William J. Olcott, Ph.B. '83, M.S. '84, A.M.(hon.) '08, of Duluth, Minnesota.

ELIGIBILITY: Students in the College of Engineering who have completed their first year of study with a minimum academic average of 2.5 honor points. "Must possess a sound and strong body, sane and capable mind, and habits of economy and temperance."

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

RICHARD L. PERRY MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1945 by the late Mrs. Edith de Long of New York City, in memory of her grandson, Richard L. Perry, a transport pilot who was killed in a plane crash.

ELIGIBILITY: Students in the Aeronautical Engineering Program, recommended by the department, who have good scholarship records and financial need.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: Two or more.

**SCOTT PAPER COMPANY FOUNDATION AWARD
FOR LEADERSHIP**

ORIGIN: Established in 1962 by the Scott Paper Company Foundation of Chester, Pennsylvania.

ELIGIBILITY: Junior students in science engineering, or in the departments of Chemical, Civil, Electrical, Industrial, and Mechanical Engineering and Engineering Mechanics who intend to pursue a career in industry or commerce.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15. Selection is made by Tau Beta Pi, the Engineering Honors Council, and the Committee on Engineering Scholarships.

AWARD: \$500 to \$1,000. May be renewed for the senior year.

NUMBER: One, plus renewal.

FRANK SHEEHAN SCHOLARSHIP IN AERONAUTICS

ORIGIN: Established in 1929 by a gift of \$20,000 from Mildred Sheehan of New York City, as a memorial to her brother, Frank P. Sheehan, a student in the University from 1917 to 1919 and from 1924 to 1925.

ELIGIBILITY: Students who intend to follow careers in aeronautics or aeronautical engineering and who have completed at least two years' work in the College of Engineering with a grade distinctly above the average.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

**SILENT HOIST AND CRANE COMPANY MATERIALS HANDLING
PRIZE AWARD**

ORIGIN: Established in 1951 by the Wunsch Foundation, Inc., of Brooklyn, New York.

ELIGIBILITY: Engineering students with aptitude or special interest in the art and science of handling materials.

PROCEDURE: Cash awards given for the best essays on the subject of "Materials Handling" at times determined by the committee in charge. Inquire in the Office of the Dean, 255 West Engineering Building.

AWARD: Variable.

NUMBER: Variable.

ERNEST M. AND NATALIE C. SIMS ENGINEERING SCHOLARSHIP

ORIGIN: Established in 1952 by Ernest McPherson Sims, A.B. '06, M.E. '08, and Natalie C. Sims of Elkhart, Indiana.

ELIGIBILITY: Students in engineering, mechanical engineering preferred. Selection based on scholarship, leadership, need, and high standard of conduct.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500.

NUMBER: One.

CHARLES AND HELEN SMILLIE SCHOLARSHIP

ORIGIN: Established in 1954 by Charles M. and Helen Smillie of Ferndale, Michigan.

ELIGIBILITY: Michigan-born student enrolled in the Production Option of the Mechanical Engineering Program. Selection is based on effort rather than high scholarship.

PROCEDURE: No applications necessary. Selection by the Committee on Engineering Scholarships on recommendation of Professor L. V. Colwell.

AWARD: \$500.

NUMBER: One.

MINNIE HUBBARD SMITH REVOLVING FUND

ORIGIN: Established in 1927 by George H. Knutson, B.S.C.E. '08, and Frank Hubbard Smith, B.S. '93, LL.B. '95.

ELIGIBILITY: Juniors and seniors in the Department of Civil Engineering of the College of Engineering who need financial assistance in order to remain in college and to complete their senior year without interruptions.

PROCEDURE: Apply any time to the Chairman of the Department of Civil Engineering of the College of Engineering. Selected by the chairman of that department.

AWARD: Variable; not a formal loan but carries the moral obligation of repayment.

NUMBER: Variable.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS SCHOLARSHIP

ORIGIN: Established in 1957 by the Society of Naval Architects and Marine Engineers of New York City.

ELIGIBILITY: Students in the Department of Naval Architecture and Marine Engineering. Selection based on scholarship, personal character, and need. Must be United States citizens. Initial award made to an entering freshman who plans to pursue a program in this department. Subsequent awards often available to others.

PROCEDURE: Freshmen apply to the Committee on University Scholarships (see General Scholarships). Others apply to the Department of Naval Architecture and Marine Engineering upon publication of notice.

AWARD: \$1,000; may be renewed if high standard of scholarship is maintained, upon the approval of the Committee on Engineering Scholarships.

NUMBER: Four, including renewals.

SQUARE D FOUNDATION SCHOLARSHIP

ORIGIN: Established in 1963 by the Square D Company.

ELIGIBILITY: Students in the Electrical or Mechanical Engineering programs who are entering their junior year and who have above-average scholarship, good character and personality, diversified interests, and need.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$700. May be renewed for the senior year if approved by the Committee on Engineering Scholarships and the Square D Foundation.

NUMBER: One new scholarship, plus any renewals.

DAVID B. STEINMAN GRANTS

ORIGIN: Established in 1955 by the David B. Steinman Foundation, Inc., of New York City, in the form of a revolving fund to be replenished by the honor-bound repayment of grants by the recipients.

ELIGIBILITY: Deserving engineering students who need financial assistance to complete their engineering education and who have high scholarship, good character, diversified interests, and leadership potentiality.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building.

GRANTS: Range from \$100 to \$500 and are noninterest bearing.

NUMBER: Variable.

TEXACO SCHOLARSHIP

ORIGIN: Established in 1957 by Texaco, Inc., of New York City.

ELIGIBILITY: Engineering students of high scholastic ability and qualities of leadership, who have completed two years of college work, have selected a curriculum which would qualify them for a scientific or engineering career in the petroleum industry, are in need of financial assistance, possess good health and physical fitness, and are United States citizens; one may be a senior.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable, about \$450; may be renewed if high scholarship is maintained.

NUMBER: Variable; maximum three.

TRANE COMPANY SCHOLARSHIP

ORIGIN: Established in 1956 by The Trane Company of La Crosse, Wisconsin.

ELIGIBILITY: Senior in Mechanical Engineering Program who is a United States citizen, in the upper 25 per cent of his class. Good character, outstanding technical and administrative potential, extracurricular activities, and need also considered. A junior may receive the scholarship if he is considered especially deserving.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$400.

NUMBER: One.

UNION CARBIDE ENGINEERING SCHOLARSHIP

ORIGIN: Established in 1960 by the Union Carbide Educational Fund of New York City, superceding the Union Carbide and Carbon Corporation's scholarship programs established in 1952 and 1953.

ELIGIBILITY: Entering freshmen of good scholastic standing and personal reputation who are recommended by their school authorities, who plan to enroll and continue in the Mechanical, Chemical, or Metallurgical Engineering programs, and who are in need of financial assistance. Students who intend to take co-operative work-study courses are not eligible.

PROCEDURE: Freshmen apply to the Committee on University Scholarships (see General Scholarships). Others apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500; may be renewed for succeeding three years if high standard of scholarship is maintained. Vacancies will be filled by the Committee on Engineering Scholarships.

NUMBER: One, plus renewals.

UNIVERSAL OIL PRODUCTS COMPANY CHEMICAL ENGINEERING SCHOLARSHIP

ORIGIN: Established in 1952 by the Universal Oil Products Company of Des Plaines, Illinois.

ELIGIBILITY: Junior and senior students in chemical engineering who are deserving of assistance. Recommended by the Chemical Engineering Department.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Variable.

NUMBER: Variable.

VULCANS SCHOLARSHIP

ORIGIN: Established in 1950 by the Vulcans, senior engineering activities honorary society of The University of Michigan.

ELIGIBILITY: Undergraduate engineering students who (1) have been enrolled in the College of Engineering for at least one semester; (2) have shown acceptable scholarship, good character, and financial need; and (3) have participated in extracurricular activities.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15. Specify Vulcans Scholarship on general application form.

AWARD: \$200 a year.

NUMBER: One annually.

WESTERN ELECTRIC COMPANY SCHOLARSHIPS

ORIGIN: Established in 1956 by the Western Electric Company of New York City.

ELIGIBILITY: Students in engineering who are United States citizens, with selection based upon need and scholastic ability, preferably in fields related to the Company's operations.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: Semester and laboratory fees and books, up to \$800.

NUMBER: Two.

WHIRLPOOL FOUNDATION SCHOLARSHIPS

ORIGIN: Established in 1956 by Whirlpool-Seeger Corporation of St. Joseph, Michigan.

ELIGIBILITY: Students about to enter the junior year in mechanical or electrical engineering who plan to enter the home laundry, refrigeration, and air-conditioning industry. Selection based on personality and appearance, scholastic standing, leadership, need, and a desire for a career in the fields above mentioned. Student selected may be either a United States or a Canadian citizen. Scholarship may be renewed for the senior year unless the Scholarship Committee or the Corporation decide that the award is not merited.

PROCEDURE: Apply to the Committee on Engineering Scholarships, 268 West Engineering Building, between February 15 and March 15.

AWARD: \$500 per year.

NUMBER: One in mechanical engineering; one in electrical engineering.

WILLIAM E. ZIMMIE AWARD

ORIGIN: Established in 1960 by William E. Zimmie of Cleveland, Ohio.

ELIGIBILITY: Sophomores in the Department of Naval Architecture and Marine Engineering. Selection based on scholarship and personal character.

PROCEDURE: Apply to the Department of Naval Architecture and Marine Engineering upon publication of notice.

AWARD: \$1,000; may be renewed if high standard of scholarship is maintained and the Committee on Engineering Scholarships approves.

NUMBER: Three, including renewals.

Flint College

GEORGE G. ALLEN SCHOLARSHIPS

ORIGIN: Established in 1956 by Mrs. Elizabeth Thomas Allen of Flint, in tribute to her husband, George G. Allen, a long-time resident of Flint.

ELIGIBILITY: Available to residents of Flint on the basis of financial need, scholastic attainment, and good citizenship. The scholarships are renewable for a second year for students with satisfactory records of accomplishment in the Flint College.

PROCEDURE: Apply before July 1 for the following academic year to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan. Scholarship applicants should be sure that their application for admission to the Flint College is completed since tentative or final admission to the College is essential for consideration.

AWARD: Depends upon the need of the individual student.

NUMBER: Variable, depending upon the number of qualified applicants.

FLINT BOWLING ASSOCIATION SCHOLARSHIPS

ORIGIN: Established in 1959 as part of a sponsorship for the Flint College and Cultural Development Program.

ELIGIBILITY: Available to residents of Genesee County on the basis of financial need, scholastic attainment, and good citizenship. The scholarships are renewable for a second year for students with satisfactory records of accomplishment in the Flint College.

PROCEDURE: Apply to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan.

AWARD: Depends upon the need of the individual student.

NUMBER: Variable.

GENERAL FLINT COLLEGE SCHOLARSHIPS

ORIGIN: This is a general scholarship established in 1957 from budgetary funds of the Flint College.

ELIGIBILITY: Available to residents of Michigan on the basis of financial need, scholastic attainment, and good citizenship. The scholarships are renewable for a second year for students with satisfactory records of accomplishment in the Flint College.

PROCEDURE: Apply to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan.

AWARD: Depends upon the need of the individual student.

NUMBER: Variable.

GENERAL MOTORS CORPORATION SCHOLARSHIPS

ORIGIN: Established in 1963 by the General Motors Corporation.

ELIGIBILITY: Based upon character, scholarship, leadership, extracurricular activities, and financial need.

PROCEDURE: Apply before May 25 to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan.

AWARD: Variable, depending upon need, with a range from \$200 to \$2,000. Renewable for the senior year if scholastic record warrants.

NUMBER: Three each year.

PETER A. KOERTS II KIWANIS SCHOLARSHIP

ORIGIN: Established in 1961 by the Flint Kiwanis Educational Foundation in memory of Peter A. Koerts II, a graduate of The University of Michigan in the Class of 1959.

ELIGIBILITY: Available to qualified Flint College students who are residents of Flint and Genesee County on the basis of financial need.

PROCEDURE: Apply before July 1 for the academic year to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan. Scholarship applicants should be sure that their application for admission to the Flint College is completed since tentative or final admission to the College is essential for consideration.

AWARD: The amount of the award depends upon the need of the individual student.

NUMBER: Variable, depending upon the number of qualified candidates.

UNIVERSITY OF MICHIGAN ALUMNI CLUB OF FLINT SCHOLARSHIPS

ORIGIN: In 1958 and in each subsequent year, the Flint alumni have made two scholarships available to qualified students at the Flint College.

ELIGIBILITY: Available to residents of Genesee County on the basis of financial need, scholastic attainment, and good citizenship. The scholarships are renewable for a second year for students with satisfactory records of accomplishment in the Flint College.

PROCEDURE: Apply to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan.

AWARD: Depends upon the need of the individual student.

NUMBER: Variable.

HAROLD M. UTLEY MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1961 by the friends and associates of Harold M. Utley in his memory.

ELIGIBILITY: Available to qualified Flint College students on the basis of financial need, scholastic attainment, and good citizenship.

PROCEDURE: Apply before July 1 for the academic year to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan. Scholarship applicants should be sure that their application for admission to the Flint College is completed since tentative or final admission to the College is essential for consideration.

AWARD: The amount of the award depends upon the need of the individual student.

NUMBER: Variable, depending upon the number of qualified applicants.

ZONTA CLUB OF FLINT SCHOLARSHIP

ORIGIN: Established in 1958 by the Zonta Club of Flint for women students at the Flint College to promote the progress of women in executive and professional services.

ELIGIBILITY: Available to qualified Flint College women in need of financial assistance. Candidates must be residents of Genesee County.

PROCEDURE: Apply before July 1 for the academic year to the Assistant Dean of the Flint College, Mott Memorial Building, 1321 East Court Street, Flint 3, Michigan. Scholarship applicants should be sure that their application for admission to the Flint College is completed since tentative or final admission to the College is essential for consideration.

AWARD: The amount of the award depends upon the need of the individual student.

NUMBER: Variable, depending upon the number of qualified applicants.

Horace H. Rackham School of Graduate Studies

(Including those fellowships which depend on special arrangements.)

LEVI L. BARBOUR SCHOLARSHIP FOR ORIENTAL WOMEN

ORIGIN: Established in 1917 by a gift from the late Levi L. Barbour, A.B. '63, LL.B. '65, of Detroit, a former Regent of the University, for the care, support, maintenance, and schooling in The University of Michigan of young women of Oriental countries.

ELIGIBILITY: By tradition, for women graduates of either Oriental or Western colleges. Character, physical condition, scholastic attainment, fitness for University work (including the ability to use the English language for study and classroom purposes), marked ability in some special field, and desire to return to their native lands for service after suitable preparation are the chief factors considered in making appointments.

PROCEDURE: Apply to the Secretary of the Barbour Scholarship Committee, University of Michigan, before January 1. Awarded by that committee

annually about March 20 to take effect at the beginning of the following first semester for a period of two semesters. Renewable at the discretion of the committee, which is influenced in making reappointments by excellence in scholarship, within a degree program. Limited to four years.

AWARD: \$600 a semester plus semester fees, University fees, and health insurance.

NUMBER: Seven or eight.

BEGOLE-BROWNELL FELLOWSHIP IN POLITICAL SCIENCE

ORIGIN: Established in 1959 by grant of the Roy E. Brownell family as a memorial to Anna Hyatt Begole and Lexie Copeman Brownell.

ELIGIBILITY: Graduate students in political science.

PROCEDURE: Application is made to the Department of Political Science in the College of Literature, Science, and the Arts between November 1 and February 15.

AWARD: Variable.

NUMBER: One.

HERBERT E. BOYNTON SCHOLARSHIP

ORIGIN: Established in 1953 by an endowment gift from Herbert E. Boynton, A.B. '86.

ELIGIBILITY: Graduate students who have received their bachelor's degree from The University of Michigan in the College of Literature, Science, and the Arts.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the chairman of the department in the applicant's field of study between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Semester fees.

NUMBER: Variable.

CARL BRAUN FELLOWSHIP

ORIGIN: Established in 1913 by Elsie L. Braun of Toledo, Ohio, with a gift of \$10,000 for the establishment and maintenance of a fellowship in memory of Carl W. Braun, '05-'07, a member of the Class of 1909.

ELIGIBILITY: Students in any field who are enrolled in the Horace H. Rackham School of Graduate Studies.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the chairman of the department in the applicant's field of study between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: About \$1,500.

NUMBER: One, whenever the accumulated interest warrants an award.

FANNY BURR BUTLER SCHOLARSHIP

ORIGIN: Established in 1938 in honor of her mother by bequest of Orma F. Butler, A.B. '97, A.M. '01, Ph.D. '07, of Ann Arbor, a member of the staff of the Department of Latin Languages and Literatures from 1913 until her death in 1938.

ELIGIBILITY: Graduate students in the classical languages.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the Chairman of the Department of Classical Studies between November 1 and February 15. Nominated by the department and selected by the Executive Board of the Graduate School.

AWARD: About \$870.

NUMBER: One annually.

EMMA J. COLE FELLOWSHIP IN BOTANY

ORIGIN: Established in 1910 by Emma J. Cole, '16-'17, of Grand Rapids, who bequeathed to the University the residue of her estate for the establishment of a fellowship in botany.

ELIGIBILITY: Graduate students of botany.

PROCEDURE: Apply to the Chairman of the Department of Botany, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School on recommendation of the department.

AWARD: Variable; from \$1,000 to \$1,700.

NUMBER: One annually.

EDWIN F. CONELY SCHOLARSHIP IN GOVERNMENT

ORIGIN: Established in 1936 by bequest of Fannie Butterfield Conely of Detroit, in memory of her husband, Edwin F. Conely, '69-'70, Professor of Law at the University from 1891 to 1893.

ELIGIBILITY: First-year graduate student in political science who has received a Bachelor of Arts degree in political science from the University.

PROCEDURE: Apply to the Chairman of the Department of Political Science, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School on nomination by the department.

AWARD: About \$500.

NUMBER: One annually.

JOHN FRANK DODGE FELLOWSHIP

ORIGIN: Established as a loan fund in 1915 by a gift of \$10,000 from John Frank Dodge of Detroit, with provision made for the establishment of fellowships when the accumulated income should become large enough to support such fellowships without impairing the original capital.

ELIGIBILITY: Graduate students in the field of engineering who wish to do research.

PROCEDURE: Applicants must be nominated by the various engineering departments between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: Variable.

MARTIN L. D'OOGHE FELLOWSHIPS IN CLASSICAL STUDIES

ORIGIN: Established in 1948 by bequest of Mary W. D'Ooge of Ann Arbor, in memory of her husband, Martin L. D'Ooge, A.B. '62, A.M. '65, LL.D.(hon.) '89, formerly head of the Department of Greek Language and Literature.

ELIGIBILITY: Graduate students in classical studies.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the Chairman of the Department of Classical Studies between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: \$1,000 to \$1,650.

NUMBER: One annually.

DUNLAP AND ASSOCIATES, INC., RESEARCH FELLOWSHIP IN ENGINEERING PSYCHOLOGY

ORIGIN: Established in 1960 by Dunlap and Associates, Inc., of Stamford, Connecticut.

ELIGIBILITY: Graduate students prepared to spend full time on a thesis research problem in some area closely related to engineering psychology.

PROCEDURE: Application should be filed with the Chairman of the Department of Psychology, College of Literature, Science, and the Arts, between November 1 and February 15. Selection is made by the department subject to the approval of the Executive Board of the Graduate School.

AWARD: \$3,000.

NUMBER: One.

LUCY E. ELLIOTT MEMORIAL FELLOWSHIP

ORIGIN: Established in 1931 by the Alumnae Council in memory of Lucy E. Elliott, A.B. '03, A.M. '20, a distinguished alumna, remembered for her achievements in the field of education who at one time served as Director of Helen Newberry Residence.

ELIGIBILITY: Women graduate students of any accredited college or university who wish to study at The University of Michigan; scholarship, creativity, and personality are primary factors considered in granting the award.

PROCEDURE: Apply to the Alumnae Secretary, Alumnae Council Office, Michigan League or Alumni Memorial Hall, when announced early in the spring semester. Selected by the Alumnae Council Scholarship Committee assisted by the Office of Financial Aids, and a representative from the Graduate School.

AWARD: \$1,000.

NUMBER: One annually.

FLORENCE FENWICK MEMORIAL FELLOWSHIP

ORIGIN: Established in 1939 by a gift from Ina H. Fenwick of Sanford, Florida, in memory of her sister, Florence Fenwick, B.S.(Chem.) '17, M.S.(Chem.) '20, Ph.D. '22.

ELIGIBILITY: Senior and graduate students working in the field of analytical, inorganic, or physical chemistry.

PROCEDURE: Apply to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Not to exceed \$500 in any one year.

NUMBER: One or more annually.

CHARLES L. FREER FELLOWSHIP FOR RESEARCH IN ORIENTAL ART

ORIGIN: Established in 1920 in honor of the late Charles L. Freer of Detroit, who founded the Freer Gallery of Art in Washington, D.C., and left a bequest to the University for research and publications in connection with the objects of Oriental art in that Gallery.

ELIGIBILITY: Students who are properly equipped with a knowledge of Oriental art and languages and who have passed their preliminary examinations for the doctoral degree in Oriental art.

PROCEDURE: Apply to the Chairman of the Department of the History of Art between November 1 and February 15. Selected by the Charles L. Freer Research and Publication Fund Committee.

AWARD: \$200 a month, at least. Holder is entitled to a year of advanced work at the Freer Gallery of Art while completing his thesis. Limited to twelve months per appointee.

NUMBER: Variable.

CHARLES L. FREER SCHOLARSHIP IN ORIENTAL ART

ORIGIN: Established in 1920 in honor of the late Charles L. Freer of Detroit, who founded the Freer Gallery of Art in Washington, D.C., and left a bequest to the University for research and publications in connection with the objects of Oriental art in that Gallery.

ELIGIBILITY: Graduate students who are beginning advanced work in Oriental art.

PROCEDURE: Apply to the Chairman of the Department of the History of Art between November 1 and February 15. Selected by the Charles L. Freer Research and Publication Fund Committee.

AWARD: \$1,300 plus semester fees for the academic year.

NUMBER: Variable.

EDWIN S. GEORGE RESERVE FELLOWSHIP

ORIGIN: Established in 1942 by Col. Edwin S. George of Detroit (1) to establish an annual fellowship in natural history; (2) to provide additional fellowships or scholarships in natural history; (3) to pay the expenses of research carried on at the Edwin S. George Reserve; and (4) for honorariums for naturalists invited to work at the Edwin S. George Reserve.

ELIGIBILITY: Graduate students with training and interest in field biology. Awards are made only to students who will be working on the Edwin S. George Reserve.

PROCEDURE: Apply any time through a staff member of the Museum of Zoology. Selected by the Executive Board of the Graduate School on recommendation of the Director and Executive Committee of the Museum of Zoology.

AWARD: Variable; usually \$750.

NUMBER: One or more annually.

JAMES W. GLOVER SCHOLARSHIP IN ACTUARIAL MATHEMATICS

ORIGIN: Established in 1938 by former students of the late Professor Emeritus James W. Glover, B.L. '92, in recognition and appreciation of the long and valuable service which he rendered to the University and its students.

ELIGIBILITY: Students in either the Horace H. Rackham School of Graduate Studies or the School of Business Administration who (1) must be in residence at The University of Michigan; (2) must complete, by the end of the year of application, all requirements for the Bachelor of Arts or the Bachelor of Business Administration degree, including the prerequisites for Mathematics 621; and (3) must, under the scholarship, elect Mathematics 621 and 622.

PROCEDURE: Apply to the Chairman of the Department of Mathematics, College of Literature, Science, and the Arts, between November 1 and February 15. Recommended by a committee in the Department of Mathematics to the Executive Board of the Graduate School; selected by the Executive Board.

AWARD: Equivalent to semester fees in either the Horace H. Rackham School of Graduate Studies or the School of Business Administration.

NUMBER: One annually.

JAMES E. HARRIS SCHOLARSHIP IN CHEMISTRY

ORIGIN: Established in 1949 by Ada A. (Mrs. J. E.) Harris and daughter, Marian, of Newark, New Jersey, in memory of the late James E. Harris, A.B. '08, M.S. '09, Ph.D. '11.

ELIGIBILITY: Needy and worthy students in chemistry.

PROCEDURE: Apply to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: Variable.

JONATHAN WISTAR HARRIS SCHOLARSHIP

ORIGIN: Established in 1927 by a gift from Mrs. Cecil Chapman Harris of Montclair, New Jersey, in memory of her late husband, Jonathan Wistar Harris, B.S. '99.

ELIGIBILITY: Worthy and needy graduate students in chemistry and related subjects.

PROCEDURE: Apply to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Varies with individual cases.

NUMBER: Variable.

HIGHER EDUCATION: FELLOWSHIP IN COMMUNITY COLLEGE ADMINISTRATION

ORIGIN: Funds from a grant from the Kellogg Foundation. The University of Michigan participates with the Michigan State University and Wayne State University in a community college leadership training program.

ELIGIBILITY: Applicants should possess the master's degree and should be planning to make community college administration their professional goal.

PROCEDURE: Application should be submitted prior to February 1, and addressed to the Director, Midwest Community College Leadership Program, 3032 Rackham Building, Ann Arbor.

AWARD: Variable; maximum \$3,000 each year.

NUMBER: Variable.

HIGHER EDUCATION: GRADUATE FELLOWSHIP IN HIGHER EDUCATION

ORIGIN: Funds supplied by the Carnegie Corporation of New York and the Kellogg Foundation to assist selected individuals to prepare for careers in the administration of higher education.

ELIGIBILITY: Applicants should have completed a minimum of one year of graduate work or have had experience in college teaching or administration.

PROCEDURE: Apply to the Center for the Study of Higher Education, 4205 U.H.S., The University of Michigan, not later than February 1. Appointments are made on or about April 1 by the Executive Board of the Graduate School on recommendation of the Committee on Higher Education.

AWARD: Variable; from \$1,000 to \$3,500 for the academic year.

NUMBER: Variable.

HIGHER EDUCATION: MICHIGAN FELLOWS IN COLLEGE ADMINISTRATION

ORIGIN: Funds supplied by the Carnegie Corporation of New York and the Kellogg Foundation.

ELIGIBILITY: Applicants should have received the doctor's degree or its equivalent, have had three or more years of experience in college teaching or administration. Preference given to persons between the ages of twenty-five and forty years.

PROCEDURE: Apply to the Center for the Study of Higher Education, 4205 U.H.S., The University of Michigan. Selected by the Executive Board of the Graduate School on recommendation of the Committee on Higher Education.

AWARD: Variable.

NUMBER: Variable.

ALBERT EUCLID HINSDALE MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1939 by bequest of Jessie Flora Hinsdale of Columbus, Ohio, as a permanent memorial to her husband, Albert Euclid Hinsdale, M.D.(*hon.*) '06, A.B. '07.

ELIGIBILITY: By tradition, worthy graduate students in the fields of chemistry or biological chemistry.

PROCEDURE: Apply any time to the Chairman of the Department of Chemistry of the College of Literature, Science, and the Arts or to the Chairman of the Department of Biological Chemistry of the Medical School. Selected by the Executive Board of the Graduate School on recommendations of the chairmen.

AWARD: Variable; may be used as a loan fund.

NUMBER: Variable.

BURKE AARON HINSDALE SCHOLAR AWARD

ORIGIN: Established by the School of Education with the approval of the Board of Regents to honor one of the University's former distinguished professors of education.

ELIGIBILITY: Candidates for the doctor's degree in education who are distinguished by high scholarship and high rank in matters of professional zeal and promise.

PROCEDURE: No application. Selected by the School of Education; presented at the time of the annual convocation of the School of Education.

AWARD: A certificate signed by the Dean, the Secretary of the Faculty, and the Chairman of the Committee on Graduate Study in Education.

NUMBER: One annually.

EDWIN C. HINSDALE SCHOLARSHIP

ORIGIN: Established in 1921 by bequest of Genevieve S. Hinsdale of Detroit, who left part of her estate for a scholarship in memory of her father, Edwin C. Hinsdale, 1844-'46.

ELIGIBILITY: Graduate students in the Museum of Zoology.

PROCEDURE: Apply any time through the staff of the Museum of Zoology.

Selected by the Executive Board of the Graduate School.

AWARD: Variable; usually \$600 to \$800.

NUMBER: Variable.

WILLIAM HERBERT HOBBS FELLOWSHIP IN GEOLOGY

ORIGIN: Established in 1953 by William Herbert Hobbs, former Chairman of the Department of Geology, who bequeathed \$20,000 to the University for the establishment of a fellowship in geology.

ELIGIBILITY: Graduate students in the Department of Geology and Mineralogy; preference is given to those specializing in glacial geology.

PROCEDURE: Apply to the Chairman of the Department of Geology and Mineralogy, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School on recommendation of the Department of Geology and Mineralogy.

AWARD: \$1,000.

NUMBER: One annually.

HOMEOPATHIC HOSPITAL GUILD SCHOLARSHIP IN MICHIGAN ETHNOLOGY

ORIGIN: Established in 1927 by a gift from the Homeopathic Hospital Guild of Ann Arbor.

ELIGIBILITY: By tradition, graduate students enrolled in The University of Michigan who wish to do summer field work in Michigan ethnology.

PROCEDURE: Apply to the Director of the Museum of Anthropology. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: One, whenever the accumulated interest warrants an award.

EITA KROM SCHOLARSHIP

ORIGIN: Established in 1961 by Arthur Krom as a memorial to his sister, Eita Krom, A.B. '23, who died while a student here.

ELIGIBILITY: Outstanding graduate student in sociology in need of financial assistance.

PROCEDURE: Apply to the Department of Sociology, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Semester fees.

NUMBER: One.

LAWTON FELLOWSHIP

ORIGIN: Established in 1919 by Frances A. Lawton of Jackson, Michigan, with a gift to the University of \$6,000 for the support of a fellowship in either astronomy or mathematics, preferably the former.

ELIGIBILITY: Graduate students in astronomy or mathematics.

PROCEDURE: Apply to the Chairman of the Department of Astronomy or of Mathematics, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: One, whenever the accumulated funds warrant an award.

WALTER F. LEWIS FELLOWSHIP

ORIGIN: Established in 1946 by bequest of Mrs. Ida Wall Lewis of Grand Rapids, Michigan, in memory of her husband, Walter F. Lewis, B.S. '95, M.S. '14.

ELIGIBILITY: Graduate students studying for the degree of Master of Science or Doctor of Philosophy in physics.

PROCEDURE: Consult the Chairman of the Department of Physics, College of Literature, Science, and the Arts, for details. Selected by the Department of Physics.

AWARD: Variable, depending on the income of the fund.

NUMBER: Usually one annually, but may be withheld to permit accumulation of funds.

ALFRED H. LLOYD FELLOWSHIPS

ORIGIN: Established by the Board of Regents of the University in recognition of the scholarly character and outstanding services of the late Professor Alfred H. Lloyd, Dean of the Graduate School.

ELIGIBILITY: Instructors in the University or students who have recently received the Doctor of Philosophy or Doctor of Science degree at the University and who present a well-organized research problem.

PROCEDURE: Consult the chairman of the department in which enrolled before April 1; application blanks sent only to departmental nominees. Selected by the Executive Board of the Graduate School.

AWARD: Variable, depending on the income; approximately \$4,500.

NUMBER: One annually.

ALICE CROCKER LLOYD FELLOWSHIP

ORIGIN: Established in 1936 by the undergraduate women of the University through the Alumnae Council to honor Alice Crocker Lloyd, A.B. '16, who was Dean of Women from 1930 until her death in 1950. The fund increases through continuing alumnae support.

ELIGIBILITY: Graduate women students with superior scholastic records. May be used by a University of Michigan graduate for work at any college or university, but a graduate of any other college or university is required to study at The University of Michigan.

PROCEDURE: Apply to the Alumnae Secretary, Alumnae Council Office, Michigan League or Alumni Memorial Hall, when announced early in the spring semester. Selected by the Alumnae Council Scholarship Committee assisted by the Office of Financial Aids and a representative from the Graduate School.

AWARD: \$1,000.

NUMBER: One annually.

WILLIAM S. MERRELL FELLOWSHIP IN PHARMACEUTICAL CHEMISTRY

ORIGIN: Established in 1943 by the William S. Merrell Company of Cincinnati, Ohio, and contributed periodically since that time.

ELIGIBILITY: Graduate students in pharmaceutical chemistry for work in synthetic drugs.

PROCEDURE: No application. Selected by the Executive Board of the Graduate School on recommendation of the Department of Pharmaceutical Chemistry, College of Pharmacy.

AWARD: Variable.

NUMBER: Variable.

EDWIN WILKINSON MILLER AWARD

ORIGIN: Established in 1942 by a gift of \$163, the nucleus of a possible total of \$500, from the colleagues and friends of Associate Professor Edwin W. Miller, A.B. '26, Ph.D. '30, of the Department of Mathematics, as a memorial to Dr. Miller, who died in 1942.

ELIGIBILITY: Graduate students who have done outstanding work in pure mathematics and undergraduate students in the College of Engineering who have done outstanding work in mathematics.

PROCEDURE: No application. Chosen by a committee within the Department of Mathematics, College of Literature, Science, and the Arts.

AWARD: A volume containing an appropriate bookplate and suited to the mathematical taste of the recipients.

NUMBER: Two annually.

CLEO MURLAND SCHOLARSHIP AWARD

ORIGIN: Established in 1943 by a group of friends of Cleo Murland, who was an Associate Professor of Vocational Education from 1919 to her retirement in June, 1943.

ELIGIBILITY: Residents or former students of The University of Michigan who make an outstanding contribution in research in the field of vocational education.

PROCEDURE: No application. Awarded by a committee named by the Dean of the School of Education and the Chairman of the Department of Vocational Education and Practical Arts in the School of Education.

AWARD: Variable.

NUMBER: One every second year.

NEAR EASTERN FELLOWSHIPS

ORIGIN: Established by the Saudi Arabian oil industry for Arab graduate students in Near Eastern studies.

ELIGIBILITY: Arab graduate students in Near Eastern languages and literatures.

PROCEDURE: Apply directly to the Near Eastern Fellowship Committee of the Department of Near Eastern Languages and Literatures. Awards are made annually in March for the academic year beginning in the following September. May be renewed for a second year.

AWARD: \$2,000, plus \$500 travel grant if needed.

NUMBER: Variable.

F. C. AND SUSAN EASTMAN NEWCOMBE FELLOWSHIP IN PLANT PHYSIOLOGY

ORIGIN: Established in 1928 by bequest of F. C. Newcombe, B.S. '90, who was for many years Professor of Botany and Director of the Botanical Laboratory, and his wife.

ELIGIBILITY: Students working in the special physiology of any group of plants or with plant material in general physiology.

PROCEDURE: Apply to the Chairman of the Department of Botany, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School on recommendation of the Department of Botany. In exceptional cases a candidate may be appointed to a postdoctoral fellowship for study abroad.

AWARD: \$1,300 for the first year. If progress is satisfactory, reappointments for two additional years may be made.

NUMBER: One, when a satisfactory candidate is found.

FREDERICK G. NOVY FELLOWSHIP FOR RESEARCH IN BACTERIOLOGY

ORIGIN: Established in 1937 by gifts from the Medical School alumni classes of the University as their objective in the Alumni Ten-Year Program. The fellowship was a tribute to Frederick G. Novy, B.S.(Chem.) '86, M.S. '87, Sc.D. '90, M.D. '91, LL.D. '36, who was a member of the faculty of the Medical School from 1886 until his retirement in 1935 and Dean of the Medical School from 1933 to 1935.

ELIGIBILITY: Graduate student who has shown marked ability in some phase of microbic life and has research work in progress the results of which promise to constitute important additions to existing knowledge. Medical students are equally eligible with graduate students specializing in bacteriology. The recipient is expected to devote at least three-fourths time to pursuit of research and the remainder to course work.

PROCEDURE: Applications must be filed with the Chairman of the Department of Microbiology not later than March 1.

AWARD: Approximately \$2,000.

NUMBER: One.

HENRY A. PARKER FELLOWSHIPS

ORIGIN: Established in 1941 by bequest of Sara Elinor Parker of Ann Arbor, in memory of her brother, Henry A. Parker, Ph.M. '90, for the study of English literature.

ELIGIBILITY: Graduate students in English.

PROCEDURE: Apply to the Chairman of the Department of English Language and Literature, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: One or two each year.

WILLIAM H. PAYNE SCHOLAR AWARD

ORIGIN: Established by the School of Education with the approval of the Board of Regents to honor one of the University's former distinguished professors of education.

ELIGIBILITY: Candidates for the master's degree in education who are distinguished by high scholarship and high rank in matters of professional zeal and promise.

PROCEDURE: No application. Selected by the School of Education; presented at the time of the annual convocation of the School of Education.

AWARD: A certificate signed by the Dean, the Secretary of the Faculty, and the Chairman of the Committee on Graduate Study in Education.

NUMBER: One annually.

ALBERT B. PRESCOTT SCHOLARSHIP IN ORGANIC CHEMISTRY

ORIGIN: Established in 1921 by a bequest of Abigail F. Prescott of Ann Arbor, in memory of her husband, Albert B. Prescott, M.D. '64, Ph.D.(*hon.*) '86, LL.D. '96, who was for many years Director of the Chemical Laboratory and the first Dean of the College of Pharmacy.

ELIGIBILITY: By tradition, graduate students in organic chemistry.

PROCEDURE: Apply to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School on recommendation of the Department of Chemistry.

AWARD: Variable; may be used as a loan fund.

NUMBER: Variable.

HORACE H. RACKHAM FIRST-YEAR GRADUATE FELLOWSHIPS

ORIGIN: Established by the Board of Governors of the Horace H. Rackham School of Graduate Studies.

ELIGIBILITY: Superior first-year graduate students.

PROCEDURE: Selected by the Executive Board of the Graduate School from departmental nominees. Apply to the chairman of the department in the applicant's field of study between November 1 and February 15.

AWARD: \$2,200 plus fees for fall and spring semesters.

NUMBER: Ten.

HORACE H. RACKHAM POSTDOCTORAL FELLOWSHIPS

ORIGIN: Allocated each year by the Board of Governors of the Horace H. Rackham School of Graduate Studies.

ELIGIBILITY: Instructors in the University or Doctors of Philosophy (or Science) of the University who (1) must have shown high ability and interest in research; and (2) must present a well-organized research program. Recency of graduation important.

PROCEDURE: Consult the chairman of the department in which enrolled before April 1. Application blanks sent only to departmental nominees. Selected by the Executive Board of the Graduate School.

AWARD: \$4,500.

NUMBER: Two annually.

HORACE H. RACKHAM PREDOCTORAL FELLOWSHIPS

ORIGIN: Allocated each year by the Board of Governors of the Horace H. Rackham School of Graduate Studies.

ELIGIBILITY: Graduate students enrolled in the Horace H. Rackham School of Graduate Studies.

PROCEDURE: Selected by the Executive Board of the Graduate School from nominees presented by the departmental staffs. Application blanks sent only to departmental nominees; nominations should be accompanied by supporting letters and documents concerning the candidates' personal, educational, and environmental history.

AWARD: \$2,350 plus fees for fall and spring semesters.

NUMBER: Fifteen annually.

JESSIE W. RADCLIFFE SCHOLARSHIP

ORIGIN: Established in 1944 by bequest of Bryant Walker, A.B. '76, LL.B. '79, Sc.D.(hon.) '12, of Detroit, in memory of his sister. Mr. Walker was for many years an honorary curator of the University Museums.

ELIGIBILITY: Women graduates of the Medical School who are preparing to go out as medical missionaries, with preference given those of the Presbyterian denomination.

PROCEDURE: Apply to the Dean of the Medical School. Selected by the faculty of the Medical School through its scholarship committee.

AWARD: Variable, depending on the income of the fund.

NUMBER: One annually; may be omitted to permit the accumulation of expendable funds.

WALLACE RADCLIFFE SCHOLARSHIP

ORIGIN: Established in 1942 by bequest of Bryant Walker, A.B. '76, LL.B. '79, Sc.D.(*hon.*) '12, of Detroit, in memory of his brother-in-law, Rev. Wallace Radcliffe, D.D.

ELIGIBILITY: Graduates of The University of Michigan who wish to enter the ministry or the field of Christian education.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies on or before March 15. Selected by the Executive Board of the Graduate School.

AWARD: Income of the fund.

NUMBER: Variable.

MARGARET KRAUS RAMSDELL FELLOWSHIP

ORIGIN: Established in 1933 by a gift from Dean and Mrs. Edward H. Kraus (parents), and Edward T. Ramsdell (husband), A.B. '23, A.M. '26, to commemorate the life and character of Margaret Kraus Ramsdell, A.B. '23, A.M. '25.

ELIGIBILITY: Graduates of The University of Michigan who wish to pursue advanced studies in this country or abroad in religious education or in preparation for the Christian ministry.

PROCEDURE: Apply to the Dean of the Graduate School on or before March 15 of the preceding academic year. Selected by a special committee provided by the deed of gift.

AWARD: Variable.

NUMBER: One annually; for one year only and not renewable.

DR. HENRY EARLE RIGGS FELLOWSHIP

ORIGIN: Established in 1944 with a gift from William B. Thom, A.B. '15, of New York City, in memory of Henry Earle Riggs, C.E. '10, D.Eng. '37, former Chairman of the Department of Civil Engineering.

ELIGIBILITY: Graduate students in engineering or chemistry.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the chairman of the department of the applicant's field of study between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Between \$1,400 and \$2,000.

NUMBER: Variable.

RUSSELL SAGE FOUNDATION FELLOWSHIP IN SOCIAL WORK AND SOCIAL SCIENCE

ORIGIN: Established for students in the doctoral program in social work and social science.

ELIGIBILITY: Students in the doctoral program in social work and social science. Stipend dependent on prior graduate degrees, residence, and the number of dependents the student has.

PROCEDURE: Apply to Professor H. J. Meyer, Supervising Committee for the Doctoral Program in Social Work and Social Science, School of Social Work.

AWARD: From \$1,600 to \$3,750.

NUMBER: Variable.

I. L. SHARFMAN FELLOWSHIP IN ECONOMICS

ORIGIN: Established in 1959 by gifts from former students, colleagues, and friends in recognition of the many years of distinguished service to the department and to the University by I. Leo Sharfman, Professor Emeritus of Economics.

ELIGIBILITY: Graduate students in the field of economics.

PROCEDURE: Apply to the Department of Economics of the College of Literature, Science, and the Arts between November 1 and February 15. Awarded to the departmental nominee by the Executive Board of the Graduate School.

AWARD: Approximately \$2,000 a year.

NUMBER: One.

ANNA OLCOTT SMITH FELLOWSHIP

ORIGIN: Established in 1938 by a gift from Mrs. John H. Avery of Corona, California, in memory of her mother.

ELIGIBILITY: Women students in the Horace H. Rackham School of Graduate Studies.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the chairman of the department in the applicant's field of study between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: One annually.

STATE COLLEGE FELLOWSHIP

ORIGIN: Established and maintained by the Regents of The University of Michigan.

ELIGIBILITY: Members of the graduating class, or graduates of not more than four years' standing, of each of the accredited colleges of the state of Michigan.

PROCEDURE: Consult the appropriate authorities of the college in which enrolled. Nominated by the faculties of the accredited colleges; nominations sent to the Dean of the Graduate School by February 15 of the academic year preceding that for which the appointment is desired. Official transcripts and three letters of recommendation should accompany the nomination.

AWARD: \$1,650 plus fees for fall and spring semesters.

NUMBER: One for each accredited college.

ORLA B. TAYLOR SCHOLARSHIP

ORIGIN: Established in 1947 by bequest of Orla B. Taylor, A.B. '86, LL.B. '87, LL.D.(hon.) '33, of Detroit, for the purpose of establishing and maintaining a scholarship for the study of history and political economy.

ELIGIBILITY: Graduate students in the fields of history and economics.

PROCEDURE: Apply to the Chairman of the Department of Economics of the College of Literature, Science, and the Arts or to the Chairman of the Department of History of the same college between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Between \$1,550 and \$1,800.

NUMBER: One or two depending on the income of the fund.

THOMAS CLARKSON TRUEBLOOD SCHOLARSHIP

ORIGIN: Established in 1921 by a gift of \$5,000, left by Dr. Trueblood in his will, and by gifts amounting to \$20,000 from the University of Michigan Oratorical Association in honor of Thomas C. Trueblood and in recognition of his service to the University as Professor of Public Speaking.

ELIGIBILITY: Graduate students in the field of speech.

PROCEDURE: No application. Selected by the Department of Speech, College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

UNIVERSITY FELLOWSHIPS IN THE GRADUATE SCHOOL

ORIGIN: Allocated each year by the Regents of The University of Michigan.

ELIGIBILITY: Properly qualified students from any college or university. Foreign students not considered until the completion of a year of work in residence at an American university. Chosen on the basis of ability and not because of pecuniary need.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the chairman of the department in the applicant's field of study between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: \$1,800 plus fees for fall and spring semesters.

NUMBER: Variable.

UNIVERSITY PRESS CLUB FOREIGN JOURNALISM FELLOWSHIPS

ORIGIN: Established in 1948 by The University of Michigan and the University Press Club of Michigan as a constructive means for developing international understanding.

ELIGIBILITY: Graduates of foreign universities who (1) are admissible to the University; (2) intend to practice journalism in their respective countries; (3) have applied to the Committee on University Press Club of

Michigan Foreign Fellowships in Journalism or are recommended to the committee by the Institute of International Education and other similar institutions; (4) demonstrate scholarship, leadership, character, and journalistic ability; and (5) can present recommendations from prominent men in public office in education and in journalism. The committee prefers applicants from newspapers whose employers give written consent to the two-year leave of absence and who will agree to employ them upon their return. It is imperative that the applicant submit proof that he can write English rapidly and speak English well.

PROCEDURE: Apply to Professor Wesley H. Maurer, Secretary to the Committee on University Press Club of Michigan Foreign Fellowships in Journalism, University of Michigan, Ann Arbor, Michigan, before March 1 for the following academic year.

AWARD: \$2,000 a year for two years. The first year offers a program of study divided between journalism and social sciences. The second year offers from three to four internships on Michigan newspapers requiring regular reporting assignments of twelve weeks each.

NUMBER: Two each year.

UNIVERSITY SCHOLARSHIPS IN THE GRADUATE SCHOOL

ORIGIN: Allocated each year by the Regents of The University of Michigan.

ELIGIBILITY: Properly qualified students from any college or university. Foreign students not considered before the completion of a year of work in residence at an American university; chosen primarily on the basis of ability and not because of pecuniary need.

PROCEDURE: Apply to the Dean of the Horace H. Rackham School of Graduate Studies or the chairman of the department in the applicant's field of study between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Fees for fall and spring semesters.

NUMBER: Variable.

EDWARD C. WALKER SCHOLARSHIP

ORIGIN: Established in 1944 by bequest of Bryant Walker, A.B. '76, LL.B. '79, Sc.D.(hon.) '12, of Detroit, in memory of his father.

ELIGIBILITY: Graduate students in the field of biology.

PROCEDURE: Consult the staff of the Museum of Zoology any time. Selected by the Executive Board of the Graduate School on recommendation of the Executive Committee of the Museum of Zoology.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

MARY MAGUIRE WALKER SCHOLARSHIP

ORIGIN: Established in 1944 by bequest of Bryant Walker, A.B. '76, LL.B. '79, Sc.D.(hon.) '12, of Detroit, in memory of his wife.

ELIGIBILITY: Graduate women in the field of English literature.

PROCEDURE: Apply to the Chairman of the Department of English Language and Literature, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School on recommendation of the department.

AWARD: Variable.

NUMBER: One annually.

DONALD LEROY WATERMAN FELLOWSHIP

ORIGIN: Established in 1955 by gift of Professor Emeritus Leroy Waterman and his wife in honor of their son to provide a fellowship in the Old Testament field in the Department of Near Eastern Languages and Literatures.

ELIGIBILITY: Graduate students in the field of Near Eastern studies.

PROCEDURE: Apply to the Chairman of the Department of Near Eastern Languages and Literatures. Selected by the Executive Board of the Graduate School on recommendation of the department.

AWARD: Approximately \$600.

NUMBER: One.

ANGELINE BRADFORD WHITTIER FELLOWSHIP IN BOTANY

ORIGIN: Established in 1903 by Joseph Bradford Whittier of Saginaw, Michigan, a member of the Class of 1872, in memory of his mother.

ELIGIBILITY: Graduate students in botany.

PROCEDURE: Apply to the Chairman of the Department of Botany, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Variable.

NUMBER: Variable.

FELLOWSHIPS DEPENDING ON SPECIAL ARRANGEMENTS

A number of fellowships are available for graduate students in various fields. These are provided by friends of the University and are subject to renewal from year to year. Appointments to these fellowships depend upon special circumstances and are arranged for by joint action of the division of the University concerned and the Graduate School. Interested students should file applications for fellowships with the Dean of the Horace H. Rackham School between November 1 and February 15. It is also advisable for interested students to inquire of the chairman of their department regarding these fellowship opportunities.

The following is a list of these special fellowships that have been active one or more years during the past three academic years—1960-61, 1961-62, and 1962-63:

ACTUARIAL SCIENCE PROGRAM

ALLEGHENY LUDLUM STEEL CORPORATION FELLOWSHIP IN METALLURGY

ALLIED CHEMICAL AND DYE CORPORATION FELLOWSHIP IN CHEMICAL ENGINEERING

ALLIED CHEMICAL AND DYE CORPORATION FELLOWSHIP IN CHEMISTRY

AMERICAN CHEMICAL SOCIETY FELLOWSHIP IN CHEMICAL ENGINEERING

AMERICAN CYANAMID FELLOWSHIP IN CHEMISTRY

AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION FELLOWSHIP

AMERICAN GAS ASSOCIATION RESEARCH FELLOWSHIP IN CHEMICAL ENGINEERING

AMERICAN SOCIETY OF TOOL AND MANUFACTURING ENGINEERS SCHOLARSHIP

ARABIAN AMERICAN OIL COMPANY SCHOLARSHIP

ARTHRITIS AND RHEUMATISM FOUNDATION FELLOWSHIP

BABCOCK AND WILCOX AID TO GRADUATE ENGINEERING AND TECHNICAL EDUCATION

BACKUS, BARBARA B., AND EDWARD H. JEWETT II SCHOLARSHIP AND FELLOWSHIP IN SCIENCE AND ENGINEERING

BACKUS, LOTTA B., SCHOLARSHIP AND FELLOWSHIP IN SCIENCE AND ENGINEERING

BARTLETT, H. H., PLANT EXPLORATION FELLOWSHIP

BELL TELEPHONE LABORATORIES GRADUATE FELLOWSHIP

BENDIX CORPORATION, THE, FELLOWSHIP

BOEING AIRPLANE COMPANY FELLOWSHIP

BRITTON, EDGAR C., FELLOWSHIP IN ORGANIC CHEMISTRY

BUSINESS ADMINISTRATION GRADUATE FELLOWSHIP

CHASE, WINIFRED B., FELLOWSHIP FOR BOTANICAL EXPLORATION

CONSUMERS POWER COMPANY GRADUATE FELLOWSHIP

CONTINENTAL OIL COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING

CURTISS-WRIGHT CORPORATION FELLOWSHIP IN AERONAUTICAL ENGINEERING

DOUGLAS AIRCRAFT FELLOWSHIP IN ENGINEERING

DOW CHEMICAL COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING

DOW CHEMICAL COMPANY FELLOWSHIP IN PHYSICS (INFRARED)

DOW CHEMICAL COMPANY ION EXCHANGE FELLOWSHIP

DOW CHEMICAL COMPANY RESEARCH FELLOWSHIP IN ELASTICITY

DU PONT FUNDAMENTAL RESEARCH IN CHEMISTRY

DU PONT INFRARED RESEARCH

DU PONT POSTGRADUATE FELLOWSHIP IN CHEMICAL ENGINEERING

DU PONT POSTGRADUATE FELLOWSHIP IN CHEMISTRY

DU PONT POSTGRADUATE TEACHING FELLOWSHIP IN CHEMISTRY

EASTMAN KODAK COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING

EASTMAN KODAK COMPANY FELLOWSHIP IN CHEMISTRY

EASTMAN KODAK COMPANY FELLOWSHIP IN PHYSICS

ESSO FELLOWSHIP IN ACTIVATION ANALYSIS

ESSO PHASE EQUILIBRIUM STUDIES

FORD FOUNDATION BEHAVIORAL SCIENCE RESEARCH FELLOWSHIP

FORD FOUNDATION—DEVELOPMENT OF WORK IN THE BEHAVIORAL SCIENCES

FORD FOUNDATION—ENGINEERING FACULTY DEVELOPMENT FELLOWSHIPS

FORD FOUNDATION—JAPANESE STUDIES STUDENT AID

FORD FOUNDATION—NEAR EASTERN STUDIES STUDENT AID
FORD FOUNDATION PROGRAM IN ECONOMIC DEVELOPMENT AND ADMINISTRATION
FOUNDRY EDUCATION FOUNDATION—WHEELBRATOR FELLOWSHIP
GENERAL ELECTRIC FOUNDATION FELLOWSHIP IN MARKETING ECONOMICS
GENERAL ELECTRIC FOUNDATION FELLOWSHIP IN MATERIALS ENGINEERING
GENERAL ELECTRIC FOUNDATION FELLOWSHIP IN METALLURGICAL ENGINEERING
GENERAL MOTORS CORPORATION FELLOWSHIP IN AUTOMOTIVE ENGINEERING
GENERAL MOTORS CORPORATION FELLOWSHIP IN INSTRUMENTATION ENGINEERING
GENERAL MOTORS CORPORATION FELLOWSHIP IN NUCLEAR ENGINEERING
GRIFFIN, C. E., SCHOLARSHIP IN MARKETING AND BUSINESS ECONOMICS
GULF OIL COMPANY FELLOWSHIP
HANAN, ALBERT P., SCHOLARSHIP
INSTITUTE OF LABOR AND INDUSTRIAL RELATIONS FELLOWSHIPS
INSTITUTE OF SCIENCE AND TECHNOLOGY FELLOWSHIPS
INTERNATIONAL BUSINESS MACHINES CORPORATION FELLOWSHIP
INTERNATIONAL NICKEL COMPANY, INC., FELLOWSHIP
JERSEY PRODUCTION COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING
JONES AND LAUGHLIN STEEL CORPORATION FELLOWSHIP
KAISER ALUMINUM AND CHEMICAL CORPORATION FELLOWSHIP
KELLOGG FOUNDATION GENETIC TRAINEESHIP
LILLY ENDOWMENT FELLOWSHIP IN PHARMACY
LINK GRADUATE FELLOWSHIP IN AERONAUTICAL ENGINEERING
MACAULEY, ESTELLE LITTLEPAGE, FELLOWSHIPS IN SCIENCE AND ENGINEERING
MERRELL, WILLIAM S., FELLOWSHIP IN PHARMACY
METROPOLITAN COMMUNITY RESEARCH FELLOWSHIPS
MICHIGAN ALUMNI FUND—GRADUATE STUDENT AID
MICHIGAN GAS ASSOCIATION FELLOWSHIP
MICHIGAN MEMORIAL—PHOENIX PROJECT 5 (CORNING GLASS WORKS)
MICHIGAN MEMORIAL—PHOENIX PROJECT FELLOWSHIPS IN NUCLEAR ENERGY
 FORD MOTOR COMPANY (3)
 DETROIT EDISON COMPANY
 LIBBEY-OWENS-FORD GLASS COMPANY
 OWENS-CORNING FIBERGLAS CORPORATION
MILES LABORATORIES FELLOWSHIP IN PHARMACY
MINNESOTA MINING AND MANUFACTURING COMPANY FELLOWSHIP
MONSANTO CHEMICAL COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING
MONSANTO CHEMICAL COMPANY FELLOWSHIP IN CHEMISTRY
MONSANTO CHEMICAL COMPANY FELLOWSHIP IN PHARMACEUTICAL CHEMISTRY
MUCHNIC FOUNDATION FELLOWSHIP IN CHEMICAL ENGINEERING
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION TRAINEESHIPS
NATIONAL ELECTRONICS CONFERENCE FELLOWSHIP
NATURAL GASOLINE ASSOCIATION OF AMERICA ABSORPTION STUDIES
NEAR EASTERN STUDIES (CARNEGIE CORPORATION)
PARKE, DAVIS AND COMPANY FELLOWSHIP IN BIOCHEMISTRY
PATON, WILLIAM A., FUND FOR ACCOUNTING SCHOLARSHIP

PHILLIPS PETROLEUM COMPANY FELLOWSHIP
 PLANT NUTRITION PROJECT, MICHIGAN MEMORIAL-PHOENIX PROJECT No. 109
 POPULATION COUNCIL FELLOWSHIPS
 PROCTER AND GAMBLE COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING
 PROCTER AND GAMBLE COMPANY FELLOWSHIP IN CHEMISTRY
 RAYBESTOS FELLOWSHIP IN CHEMISTRY
 RAYTHEON PREDOCTORAL FELLOWSHIP IN ELECTRICAL ENGINEERING
 SCHOEN-RENE FELLOWSHIP
 SHELL OIL COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING
 SHELL OIL COMPANY FELLOWSHIP IN MECHANICAL ENGINEERING
 SINCLAIR OIL COMPANY FELLOWSHIP IN CHEMICAL ENGINEERING
 SLOAN, ALFRED P., FELLOWSHIPS—SCIENCE TEACHER
 SMITH, KLINE AND FRENCH FELLOWSHIP IN ANALYTICAL PHARMACEUTICAL
 CHEMISTRY
 SOCONY MOBIL FELLOWSHIP IN CHEMICAL ENGINEERING
 SPERRY GYROSCOPE COMPANY FELLOWSHIP IN ELECTRICAL ENGINEERING
 SPONSORED RESEARCH FELLOWSHIPS
 STANDARD OIL COMPANY OF CALIFORNIA FELLOWSHIP
 STANDARD OIL COMPANY OF INDIANA FELLOWSHIP
 STERLING-WINTHROP FELLOWSHIP IN PHARMACEUTICAL CHEMISTRY
 STEVENS, MARY F., SCHOLARSHIP AND FELLOWSHIP IN SCIENCE AND ENGINEERING
 SUN OIL COMPANY FELLOWSHIP IN ORGANIC CHEMISTRY
 TEXACO FELLOWSHIP IN MECHANICAL ENGINEERING
 UNION CARBIDE CORPORATION FELLOWSHIP
 UNIVERSAL-CYCLOPS FELLOWSHIP
 UPJOHN COMPANY FELLOWSHIP IN PHARMACEUTICAL CHEMISTRY
 UPJOHN COMPANY FELLOWSHIP IN PHARMACY
 WESTINGHOUSE FELLOWSHIP IN ELECTRICAL ENGINEERING
 WOLVERINE TRUFIN FELLOWSHIP
 WOODS, ROBERT J., MEMORIAL FELLOWSHIP

Law School

ALDRICH FUND

ORIGIN: Established in 1955 under the will of Bertrand F. Aldrich, LL.B. '99,
 "in honor and memory" of his parents, James M. and Mary F. Aldrich,
 and his grandfather Ezra's family.

ELIGIBILITY: Income to be distributed to three students in the "law depart-
 ment" and three students in the "science department" of the University
 who, in their junior year, are needy and attain scholastic standing above
 the average.

PROCEDURE: Apply to the Scholarship Committee of the Law School by March 15 for the following University year; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Income of the fund.

NUMBER: Three.

STANDISH BACKUS MEMORIAL SCHOLARSHIP

ORIGIN: Established in November, 1956, by Mrs. Standish Backus in honor of her late husband, Standish Backus, a graduate of The University of Michigan in the Class of 1898.

ELIGIBILITY: Worthy and needy students in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable.

NUMBER: Variable, depending on income of the fund.

BARRISTERS AWARD

ORIGIN: Established in 1952 by Barristers, men's senior society, and maintained by the work of this organization.

ELIGIBILITY: A senior law student who has compiled a fine scholastic record while also making, through part-time employment, one of the most substantial contributions toward his own legal education.

PROCEDURE: No applications. Selected by Barristers.

AWARD: \$250.

NUMBER: One annually.

HENRY M. BATES MEMORIAL SCHOLARSHIP

ORIGIN: Established in January, 1950, by alumni and friends of the late Dean Henry M. Bates, Ph.B. '90, LL.D. '41, a member of the Law School staff from 1903 to 1909 and Dean of the Law School from 1910 until his retirement in 1939.

ELIGIBILITY: Awarded on the basis of scholarship, personality, character, and promise of distinguished careers in the profession.

PROCEDURE: No applications. Awarded by the faculty of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

BROOMFIELD ESSAY PRIZE

ORIGIN: The late Archibald Broomfield, a prominent Detroit attorney and graduate of the University, LL.B. '02, made a generous bequest to the University in 1953, stipulating that it be used to endow an annual prize essay contest on a subject related to adult education in good citizenship, as a memorial to the members, living and dead, of the Class of 1902 Law.

ELIGIBILITY: The contest is open each year to all students and alumni of The University of Michigan.

PROCEDURE: The contest is conducted annually on a topic stipulated by the committee which administers the competition. A copy of the current announcement containing the topic for the year and the rules under which the competition is conducted can be secured by addressing a request to the Broomfield Awards Committee, Hutchins Hall, Ann Arbor.

AWARD: The number and size of awards are determined annually.

NUMBER: In 1963 the competition offers one award of \$1,800.

NATHAN BURKAN MEMORIAL COMPETITION

ORIGIN: Established in 1938 by the American Society of Composers, Authors and Publishers to stimulate interest in the study of copyright law.

ELIGIBILITY: Students in the Law School.

PROCEDURE: Student submits an essay on the subject of his choice concerning copyright law to Director, Prize Essay Program, 343 Hutchins Hall, by August 15. Local winners are selected by the Law School committee, and the winning paper is sent to A.S.C.A.P. for judging in the National Competition.

AWARD: Local awards: first prize, \$250; second prize, \$100. National winners: \$1,000, \$500, and \$250.

NUMBER: Variable.

CLARENCE M. BURTON MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1953 and maintained by annual contributions of the Clarence M. Burton Memorial Foundation of Detroit.

ELIGIBILITY: Three members of the senior class who have made an excellent scholastic record and who have displayed other qualifications essential for leadership at the bar.

PROCEDURE: No application. Awarded by the faculty of the Law School.

AWARD: Variable.

NUMBER: Three annually.

HENRY M. CAMPBELL MEMORIAL PRIZE

ORIGIN: Established in 1926 in memory of their former partner, Henry M. Campbell, Ph.B. '76, LL.B. '78, LL.D.(hon.) '16, by the firm of Campbell, Bulkley, and Ledyard, of Detroit

ELIGIBILITY: Law students participating in the final second-year Case Club arguments.

PROCEDURE: No application. Chosen from those participating in the Case Club work.

AWARD: \$400 total annually; first prizes of \$125 to each of two winners and second prizes of \$75 to each of two runners-up.

NUMBER: One set of awards annually.

CLASS OF 1902 LAW MEMORIAL

ORIGIN: Established in 1942 by members of the Law Class of 1902.

ELIGIBILITY: "Promising law students of good character, reasonable ability, great diligence, and entirely worthy."

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1904 LAW SCHOLARSHIP

ORIGIN: Established in 1941 by the members of the Law Class of 1904.

ELIGIBILITY: Worthy students in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1907 LAW SCHOLARSHIP

ORIGIN: Established in 1943 by the members of the Law Class of 1907.

ELIGIBILITY: Worthy and needy students in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1908 LAW MEMORIAL (FINDLEY AWARD)

ORIGIN: Established in 1924 by the Honorable Guy B. Findley, LL.B. '08, of Elyria, Ohio.

ELIGIBILITY: The senior student who, at the beginning of his senior year, has attained the highest scholastic average.

PROCEDURE: No application. Awarded by the faculty of the Law School.

AWARD: Income of the fund.

NUMBER: One annually.

CLASS OF 1908 LAW SCHOLARSHIP

ORIGIN: Established in 1941 by the members of the Law Class of 1908.

ELIGIBILITY: Worthy and needy students in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1912 LAW MEMORIAL

ORIGIN: Established in 1949 by the members of the Law Class of 1912.

ELIGIBILITY: Worthy and needy students of ability.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1914 LAW SCHOLARSHIP

ORIGIN: Established in 1939 by the members of the Law Class of 1914.

ELIGIBILITY: "Worthy and deserving law students, preferably seniors."

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1916 LAW MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1952 by members of the Law Class of 1916.

ELIGIBILITY: Worthy law students chosen on the basis of character, scholarship, personality, and promise of distinction in the profession.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1922 LAW MEMORIAL

ORIGIN: Established in 1957 by members of the Law Class of 1922.

ELIGIBILITY: Worthy and needy students in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1923 LAW FUND

ORIGIN: Established in 1959 by members of the Law Class of 1923.

ELIGIBILITY: Worthy and needy students.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1924 LAW MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1949 by members of the Law Class of 1924.

ELIGIBILITY: Worthy junior or senior students, who shall be selected on the basis of scholarship and need.

PROCEDURE: Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable.

NUMBER: One annually.

CLASS OF 1929 LAW SCHOLARSHIP

ORIGIN: Established in 1954 by members of the Law Class of 1929.

ELIGIBILITY: For promising law students lacking adequate financial means but of good character, ability, diligence, and general worth.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1959 LAW SCHOLARSHIP AND LOAN

ORIGIN: Established in 1959 by members of the Law Class of 1959.

ELIGIBILITY: Worthy and needy students in the Law School.

PROCEDURE: Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

CLASS OF 1961 LAW SCHOLARSHIP AND LOAN

ORIGIN: Established in 1961 by the members of the Law Class of 1961.

ELIGIBILITY: Worthy but needy students in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

HOWARD B. COBLENTZ PRIZE

ORIGIN: Established in 1921 by Mr. and Mrs. George W. Coblentz of Erie, Pennsylvania, with a gift of \$1,000 in memory of their son, Howard B. Coblentz, a member of the Law Class of 1918, who enlisted while a student and lost his life in World War I.

ELIGIBILITY: That student member of the *Michigan Law Review* editorial staff whose work on the *Review* during the year is most satisfactory.

PROCEDURE: No application. Awarded by the faculty of the Law School at the end of each college year.

AWARD: Income of the fund.

NUMBER: One annually.

GRANT L. COOK MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1955 by the trustees of the Grant L. Cook Foundation as a memorial to Grant L. Cook, LL.B. '17.

ELIGIBILITY: Promising law students lacking adequate financial means, but of good character, ability, diligence, and general worth.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available income.

NUMBER: Variable.

WILLIAM W. COOK ENDOWMENT FELLOWSHIP

ORIGIN: Established in 1930 by bequest of William W. Cook, A.B. '80, LL.B. '82, of New York City, who designated that the income of this permanent trust should be devoted to aiding and developing the Law School of The University of Michigan.

ELIGIBILITY: Graduates of approved colleges who (1) hold Bachelor of Arts or equivalent degrees; (2) hold law degrees from approved law schools; and (3) have displayed superior scholarship in undergraduate school and outstanding scholarship in law school.

PROCEDURE: Write to the Chairman of the Committee on Graduate Study of the Law School. Selected by that committee.

AWARD: Variable.

NUMBER: Variable.

FREDERICK W. DeFOE MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1959 by friends and relatives in honor of Frederick W. DeFoe, '02, who passed away in December, 1958.

ELIGIBILITY: Worthy and needy students of the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available funds.

NUMBER: Variable.

CLYDE A. DeWITT LAW SCHOLARSHIP

ORIGIN: Established in 1956 by bequest of Clyde A. DeWitt, LL.B. '08, a superior student, and an editor of the *Michigan Law Review*.

ELIGIBILITY: Students in the Law School and graduate law students from the Philippine Islands. Awarded on the basis of worthiness and need.

PROCEDURE: American students: entering students apply to the Admissions Officer of the Law School; previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Philippine students: apply to the Director of Graduate Studies when submitting applications for admission as graduate students in law. Selected by Graduate and Research Committee of the Law School.

AWARD: Variable.

NUMBER: Variable.

JEROME S. FREUD MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1945 and maintained by annual contributions made by the Jerome Freud Foundation at the discretion of Oscar Markus, trustee.

ELIGIBILITY: Available to a student based upon previous scholastic attainment in this Law School and such other factors as the faculty may deem pertinent to the determination.

PROCEDURE: No application. Made upon recommendation of the faculty.

AWARD: Variable.

NUMBER: One.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in the Law School. Awarded on the basis of scholarship and financial need.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable.

NUMBER: Variable.

EDWIN C. GODDARD SCHOLARSHIP

ORIGIN: Established in 1943 by bequest of Edwin C. Goddard, Ph.D. '89, LL.B. '99, a former member of the faculty of the Law School from 1895 until his retirement in 1935, to provide scholarships for students of the University.

ELIGIBILITY: Awarded to students in the Law School on the basis of character, ability, and need.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Varies according to circumstances.

NUMBER: One or more annually.

DANIEL H. GRADY LAW SCHOLARSHIP

ORIGIN: Established in 1954 under the terms of the will of Daniel H. Grady.

ELIGIBILITY: That senior law student who has made the highest standing in his or her studies throughout his or her full course as a student in the Law School.

PROCEDURE: No application. Awarded by the faculty of the Law School at the end of each college year.

AWARD: Income of the fund.

NUMBER: One annually.

HARRY HELFMAN LAW STUDENT AID

ORIGIN: Established in 1943 by bequest of Harry Helfman, A.B. '98, LL.B. '00, of Detroit, to provide scholarships or loans.

ELIGIBILITY: Students in the Law School who need financial aid.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Varies according to circumstances; amounts determined by the Scholarship Committee of the Law School.

NUMBER: Several.

MR. AND MRS. SHERWIN A. HILL SCHOLARSHIP

ORIGIN: Established in 1959 by Frank A. Lamberson, M.D., in honor of Mr. and Mrs. Sherwin A. Hill. Mr. Hill was a graduate of the University of Michigan Law School in 1907.

ELIGIBILITY: Worthy and needy law students who have exhibited superior scholastic ability, while at the same time contributing, because of need, to their own support.

PROCEDURE: Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable, depending upon the income of the fund.

NUMBER: Variable.

JASON L. HONIGMAN AWARD

ORIGIN: Established by Jason L. Honigman, J.D. '26, an editor of the *Michigan Law Review* as a student and now senior partner in the law firm Honigman, Miller, Schwartz and Cohn of Detroit.

ELIGIBILITY: The senior student editor (or editors) of the *Michigan Law Review*, who, in the opinion of the faculty of the Law School, has made the greatest contribution to the *Review* during the preceding two years. The Editor-in-Chief of the *Review* will not be eligible for this award.

PROCEDURE: No applications. Awarded by the faculty of the Law School.

AWARD: \$500.

NUMBER: One or more.

JOHN H. KING LAW SCHOLARSHIP

ORIGIN: Established in 1947 by bequest of John H. King, LL.B. '03, Edinburg, Illinois.

ELIGIBILITY: Worthy and needy young men in the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

LAW SCHOOL ALUMNI SCHOLARSHIP

ORIGIN: Established in 1956 by alumni of the Law School.

ELIGIBILITY: Worthy and needy students.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Dependent upon the income of the fund.

NUMBER: Variable.

LAWYERS TITLE INSURANCE CORPORATION PRIZE

ORIGIN: Established by Lawyers Title Insurance Corporation of Richmond, Virginia, in 1954.

ELIGIBILITY: The student who receives the highest grades in real property courses. Account is taken of the grades in the following courses: First-year Property, Trusts and Estates I, Trusts and Estates II, Fiduciary Administration, Security, and Conveyancing and Drafting.

PROCEDURE: No applications. Award is made by the faculty of the Law School.

AWARD: \$100.

NUMBER: One.

FREDERICK L. LECKIE SCHOLARSHIP AND LOAN

ORIGIN: Established in 1952 under the will of Frederick L. Leckie, '04 Law, a member of the firm of Leckie, McCreary, Schlitz and Hinslea, who died in November, 1950.

ELIGIBILITY: Students of the Law School who show promise of distinguished careers, but who need some financial assistance to complete their degrees.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Determined annually, depending upon available funds.

NUMBER: Variable.

LEGISLATIVE RESEARCH FELLOWSHIP

(See William W. Cook Endowment Fellowship. Money for the Legislative Research Fellowships is from that source.)

ARTHUR C. LEHMAN MEMORIAL

ORIGIN: Established in 1962 by friends and relatives of Arthur C. Lehman, J.D. '32, who passed away in February, 1962.

ELIGIBILITY: Worthy and needy students of the Law School.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable.

NUMBER: Variable.

LINDLEY SCHOLARSHIP

ORIGIN: Established under the will of Erasmus C. Lindley, LL.B. '96.

ELIGIBILITY: Worthy and needy law students.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable, depending upon the income of the fund.

NUMBER: Variable.

McCORMICK MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1954 by Thurman L. McCormick, LL.B. '18, in memory of his wife, Etta M. McCormick, and in honor of two of Mr.

McCormick's professors while at the University, Thomas A. Bogle and Edson R. Sunderland.

ELIGIBILITY: To persons of superior ability, scholarship, and character.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable.

NUMBER: Variable.

MILLER, CANFIELD, PADDOCK, AND STONE LAW SCHOLARSHIP

ORIGIN: Established in 1962 by the Detroit firm of Miller, Canfield, Paddock, and Stone.

ELIGIBILITY: One or more outstanding students entering the Law School, showing promise of high academic performance.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Selected by the Admissions Officer.

AWARD: Variable, depending upon need.

NUMBER: Variable.

AMY ANGELL COLLIER MONTAGUE AND JAMES BURRILL ANGELL LAW SCHOLARSHIP

ORIGIN: Established in 1961 by a bequest from Gilbert H. Montague, prominent member of the New York Bar, in honor of his wife, Amy Angell Collier Montague, and her uncle, Dr. James Burrill Angell, former President of The University of Michigan, to provide scholarships for worthy students in the Law School.

ELIGIBILITY: Students in the Law School. Awarded on the basis of scholarship and financial need.

PROCEDURE: Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable.

NUMBER: Variable.

MAY T. MORRISON TRUST ESTATE

ORIGIN: Established in 1955 by the trustee of the May T. Morrison Trust Estate. This scholarship is composed of four separate trusts entitled: Wendell Thomas Fitzgerald Scholarship Fund, Charles Coolidge Kreis Scholarship Fund, Herbert Watson Clark Scholarship Fund, and William Lawson Holloway Scholarship Fund.

ELIGIBILITY: Worthy and needy law students, in the second or third year of study, who have exhibited superior scholarship, while at the same time contributing, because of need, to his own support.

PROCEDURE: Apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable, depending upon the income of the funds.

NUMBER: Variable.

FOORMAN L. MUELLER PATENT LAW SCHOLARSHIP

ORIGIN: Established in November, 1956, by Foorman L. Mueller, A.B. '27, of the firm of Mueller and Aichele, Chicago, Illinois.

ELIGIBILITY: Deserving law students who possess an engineering or physics background and who have a sincere interest in becoming a patent lawyer.

PROCEDURE: Apply to the Scholarship Committee of the Law School by March 15 for the following University year. Selected by the committee of the Law School.

AWARD: \$550.

NUMBER: One.

NATIONAL BANK OF DETROIT ESTATE PLANNING AWARD

ORIGIN: Established by the National Bank of Detroit in 1959.

ELIGIBILITY: The student who has done the best work in the course in Estate Planning.

PROCEDURE: No applications. Award made by the faculty of the Law School.

AWARD: \$100.

NUMBER: One each semester.

SAMUEL J. PLATT SCHOLARSHIP

ORIGIN: Established in 1938 by bequest of Ursula L. Platt of Oakland, California, in memory of her son, Samuel J. Platt, A.B. '83, LL.B. '85.

ELIGIBILITY: By custom awarded alternate years to either prelaw students in the College of Literature, Science, and the Arts or students in the Law School who are worthy and needy.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee of the Law School. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable; given in alternate years.

ABRAM W. SEMPLINER MEMORIAL AWARD

ORIGIN: Established in 1960 by Jason L. Honigman, J.D. '26, in memory of Abram W. Sempliner, LL.B. '02, for many years an outstanding member of the Detroit Bar, and employer and later partner of Mr. Honigman.

ELIGIBILITY: The Editor-in-Chief of the *Michigan Law Review*, in recognition of outstanding work for the *Law Review*, a superior scholastic record, and effective leadership.

PROCEDURE: No applications. Awarded by the faculty of the Law School.

AWARD: \$500.

NUMBER: One.

THE UNITED STATES LAW WEEK AWARD

ORIGIN: Given annually by the Bureau of National Affairs, Inc.

ELIGIBILITY: The graduating student in law who, in the judgment of the faculty committee, has made the most satisfactory scholastic progress in his final year.

PROCEDURE: No application. Awarded by the faculty of the Law School at the end of each college year.

AWARD: A year's complimentary subscription to *Law Week*, a prize of approximately \$100 value.

NUMBER: One each year.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled seniors in the Law School, residents of Michigan, who have high scholastic records and need financial assistance.

PROCEDURE: Apply to the Chairman of the Scholarship Committee of the Law School by March 15 for the following fall semester and by December 1 for the spring semester. Selected by the committee of the Law School.

AWARD: Equivalent to semester fees.

NUMBER: Three in the Law School; renewable for the spring semester on the basis of performance.

BEVERLY B. VEDDER MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1956 by friends in honor of Beverly B. Vedder, J.D. '12.

ELIGIBILITY: Worthy and needy students.

PROCEDURE: Entering students: apply to the Admissions Officer of the Law School. Previously enrolled students: apply to the Chairman of the Scholarship Committee. Apply for aid for the University year by March 15; apply for emergency aid for the spring semester by December 1. Selected by the committee of the Law School.

AWARD: Dependent upon funds available.

NUMBER: Variable.

College of Literature, Science, and the Arts

ALDRICH FUND

ORIGIN: Established in 1955 under the will of Bertrand F. Aldrich, LL.B. '99, "in honor and memory" of his parents, James M. and Mary F. Aldrich, and his grandfather Ezra's family.

ELIGIBILITY: Income to be distributed to three students in the "law department" and three students in the "science department" of the University who, in their junior year, are needy and attain scholastic standing above the average.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on income from fund.

NUMBER: Three in each category.

PAUL F. BAGLEY SCHOLARSHIP

ORIGIN: Established in 1931 by a bequest of \$5,000 from the late Paul F. Bagley of Detroit.

ELIGIBILITY: Promising and worthy students in chemistry.

PROCEDURE: Apply any time to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts. Selected by the Department of Chemistry.

AWARD: Variable.

NUMBER: Variable.

HERBERT E. BOYNTON SCHOLARSHIP

ORIGIN: Established in 1953 by an endowment gift from Herbert E. Boynton, A.B. '86.

ELIGIBILITY: Worthy students in the College of Literature, Science, and the Arts who are members of the junior or senior classes or are engaged in postgraduate work.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on income from fund.

NUMBER: Variable.

BRONSON-THOMAS GERMAN PRIZE

ORIGIN: Established in 1929 by a gift of \$1,000 from Thomas Bertrand Bronson, A.B. '81, A.M. '86, formerly Assistant Headmaster at the Lawrenceville School, Lawrenceville, New Jersey, in memory of Calvin Thomas, A.B. '74, A.M. '77, LL.D. '04, Professor of the German Language and Literature in The University of Michigan from 1878 to 1896 and later Gebhard Professor of German in Columbia University.

ELIGIBILITY: Students in third- or fourth-year German courses.

PROCEDURE: Inquire in the office of the Department of Germanic Languages and Literatures at the beginning of the spring semester. Awarded on the basis of a competitive examination and essay set during March of each year by the department.

AWARD: Approximately \$70 every even-numbered year; a first prize of \$40 and a second prize of \$30.

NUMBER: Variable, usually two every even-numbered year.

WILLIAM JENNINGS BRYAN PRIZE IN POLITICAL SCIENCE

ORIGIN: Established in 1899 by a gift of \$500 from the Honorable William Jennings Bryan to the Good Government Club and given by the Club to the University.

ELIGIBILITY: That member of the graduating class in the College of Literature, Science, and the Arts who has shown the greatest proficiency and unusual distinction in the field of political science.

PROCEDURE: No application. Awarded by the Department of Political Science.

AWARD: Usually in the form of books.

NUMBER: One prize whenever the funds accumulate.

DR. AND MRS. O. B. CAMPBELL SCHOLARSHIPS

ORIGIN: Established in 1947 by bequest of Mrs. O. B. Campbell of Washington, D.C., the widow of O. B. Campbell, M.D. '75.

ELIGIBILITY: Students of merit in the College of Literature, Science, and the Arts.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts; applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Determined annually.

NUMBER: No less than three.

WINTHROP BURR CHAMBERLAIN SCHOLARSHIP

ORIGIN: Established in 1953 by Mrs. Winthrop Burr Chamberlain in honor of her husband, Winthrop Burr Chamberlain, A.B. '84, reporter and editor of the *Minneapolis Journal* for more than fifty years.

ELIGIBILITY: Worthy students of journalism in need of financial assistance.

PROCEDURE: Consult the Chairman of the Department of Journalism, College of Literature, Science, and the Arts. Selected by the Department of Journalism.

AWARD: Variable.

NUMBER: Variable.

CLASS OF 1926 LITERATURE, SCIENCE, AND THE ARTS MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1949 by members of the Class of 1926.

ELIGIBILITY: Students of merit in the College of Literature, Science, and the Arts.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on income from fund.

NUMBER: Variable.

LUCINDA GOODRICH DOWNS SCHOLARSHIP

ORIGIN: Established in 1944 by bequest of the late Miss Georgia Ann Goodrich, '75-76 Lit., in memory of her sister, Mrs. Lucinda Goodrich Downs.

ELIGIBILITY: Students majoring in English who need financial assistance and who give evidence of high ability in the use of English.

PROCEDURE: No application. Selected by the Department of English Language and Literature, College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

FLORENCE FENWICK MEMORIAL FELLOWSHIP

ORIGIN: Established in 1939 by a gift from Ina H. Fenwick of Sanford, Florida, in memory of her sister, Florence Fenwick, B.S.(Chem.) '17, M.S.(Chem.) '20, Ph.D. '22.

ELIGIBILITY: Senior and graduate students working in the field of analytical, inorganic, or physical chemistry.

PROCEDURE: Apply to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts, between November 1 and February 15. Selected by the Executive Board of the Graduate School.

AWARD: Not to exceed \$500 in any one year.

NUMBER: One or more annually.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students enrolled in the College of Literature, Science, and the Arts for at least one semester. Awarded on the basis of scholarship and financial need.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts; applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable.

NUMBER: Variable.

WINIFRED S. GETTEMY SCHOLARSHIP

ORIGIN: Established in 1945 by a bequest of \$2,000 from the late Winifred S. Gettemy of Lansing.

ELIGIBILITY: White junior or senior students majoring in speech or dramatics who are of at least B standing and who need financial aid.

PROCEDURE: No application. Selected by the Department of Speech, College of Literature, Science, and the Arts; not renewable.

AWARD: \$100.

NUMBER: One annually; if no qualified candidate, stipend advanced to the following year.

GOMBERG SCHOLARSHIP

ORIGIN: Established in 1936 by a group of former students and friends of Professor Moses Gomberg, B.S. '90, M.S. '92, Sc.D. '94, LL.D. '37, until 1936 Professor of Organic Chemistry and Chairman of the Department of Chemistry.

ELIGIBILITY: Outstanding undergraduate students specializing in chemistry who are in need of financial assistance.

PROCEDURE: Apply any time to the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts. Selected by the Department of Chemistry.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

JAMES E. HARRIS SCHOLARSHIP IN CHEMISTRY

ORIGIN: Established in 1949 by Ada A. (Mrs. J. E.) Harris and daughter, Marian, of Newark, New Jersey, in memory of the late James E. Harris, A.B. '08, M.S. '09, Ph.D. '11.

ELIGIBILITY: Needy and worthy students in chemistry.

PROCEDURE: Income to be used for grants to persons recommended by the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts.

AWARD: Variable.

NUMBER: Variable.

MARTHA ROBINSON HAWKINS SCHOLARSHIP

ORIGIN: Established in 1939 by an anonymous donor as a permanent memorial to Martha Robinson Hawkins.

ELIGIBILITY: Students of unusual promise and ambition who are in real need of financial help; one year's residence required; students from Maryland, Virginia, and Maine preferred.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts; applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income.

NUMBER: Variable.

PHEBE A. I. HOWELL SCHOLARSHIP

ORIGIN: Established in 1942 by bequest of Phebe A. I. Howell, A.B. '89, of Washington, D.C.

ELIGIBILITY: Needy and worthy students who have been enrolled in the College of Literature, Science, and the Arts for at least one semester.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts; applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable.

NUMBER: Variable.

JAMES B., CHARLES J., AND MARGARET E. HUNT SCHOLARSHIP

ORIGIN: Established in 1933 by a bequest of Charles J. Hunt, A.B. 1846, and his wife, Margaret E. Hunt, a student in the University in 1878-79, of Detroit.

ELIGIBILITY: Needy students, either men or women, in the College of Literature, Science, and the Arts, residents of Michigan, enrolled in the University for at least one semester.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts; applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

MARGARET E. AND CHARLES J. HUNT SCHOLARSHIP

ORIGIN: Established by a bequest of Margaret E. Hunt, '78-'79, and Charles J. Hunt, A.B. 1846, of Detroit.

ELIGIBILITY: (1) Descendants of James O. Smith (brother of Margaret E. Hunt) or descendants of the nearest collateral branch of the family of Margaret E. Hunt. (2) Residents of Michigan, the distribution insofar as possible to be equal among male and female applicants.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts; applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: \$300.

NUMBER: One annually to applicant in the first eligibility category and three annually to applicants in the second eligibility category.

KOTHE-HILDNER GERMAN STUDIES AWARD

ORIGIN: Established in 1948 by a gift from Herman W. Kothe, LL.B. '10, of Indianapolis, Indiana.

ELIGIBILITY: Open to students taking sophomore German.

PROCEDURE: A translation competition open to students taking sophomore German. For particulars inquire at the office of the Department of Germanic Languages and Literatures, College of Literature, Science, and the Arts. Awarded by the department.

AWARD: \$75 annually: a first prize of \$45 and a second prize of \$30.

NUMBER: Two annually.

EITA KROM PRIZE

ORIGIN: Established in 1923 by Mr. and Mrs. Barney Krom of Iron River, Michigan, and supplemented in 1949 by a gift from Arthur D. Krom of Chicago, in memory of their daughter and sister, Eita Krom, A.B. '23, who died while a student here.

ELIGIBILITY: Junior and senior students in the College of Literature, Science, and the Arts.

PROCEDURE: Inquire at the office of the Department of Sociology, College of Literature, Science, and the Arts. Awarded by that department on the basis of a competitive paper of 5,000 to 10,000 words which is due February 1.

AWARD: \$75.

NUMBER: One annually.

ELIZABETH SARGENT LEE MEDICAL HISTORY PRIZE

ORIGIN: Established in 1939 by bequest of Alfred O. Lee, a member of the faculty of the University from 1908 until his death in 1938, in memory of Elizabeth Sargent Lee.

ELIGIBILITY: Junior and senior premedical students.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts at the beginning of the second semester. Awarded for the best essay on some topic concerning the history of medicine.

AWARD: Variable.

NUMBER: Ordinarily two: a first and a second prize.

1949 LITERARY COLLEGE CLASS AWARD

ORIGIN: Established in 1954 by the members of the Class of 1949.

ELIGIBILITY: Needy entering freshmen in the College of Literature, Science, and the Arts.

PROCEDURE: Apply to the Scholarship Office, 2011 Student Activities Building, by February 1. Selected by the Committee on University Scholarships.

AWARD: Variable, depending on income from fund.

NUMBER: Variable.

SIMON MANDLEBAUM SCHOLARSHIP

ORIGIN: Established in 1929 by a bequest of \$60,000 from Mary S. Mandelle (Mandlebaum) of Detroit, in memory of her father, Simon Mandlebaum.

ELIGIBILITY: Men students who (1) have been enrolled in the College of Literature, Science, and the Arts or in the College of Engineering for at least one year prior to the date of application; and (2) are citizens of the United States. Character, need, and scholarship considered in the order named.

PROCEDURE: Students in the College of Literature, Science, and the Arts apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Approximately \$375; paid in two equal amounts at the beginning of the fall and spring semesters, respectively.

NUMBER: Three annually in the College of Literature, Science, and the Arts.

MARGARET MANN SCHOLARSHIP IN LIBRARY SCIENCE

ORIGIN: Established in 1938 by the University of Michigan Library Science Alumni Association, the Ann Arbor Library Club, associates, and former students in honor of Professor Margaret Mann, a member of the staff of the Department of Library Science from 1926 until her retirement in June, 1938.

ELIGIBILITY: Resident students with outstanding scholastic records in the Department of Library Science, College of Literature, Science, and the Arts.

PROCEDURE: No application. Selected by the faculty of the Department of Library Science, College of Literature, Science, and the Arts, each spring as an academic honor.

AWARD: Approximately \$250.

NUMBER: One.

FANNY RANSOM MARSH SCHOLARSHIP

ORIGIN: Established in 1917 by bequest of Elia M. Walker of Chicago, in memory of her mother, Fanny Ransom Marsh.

ELIGIBILITY: Students in the College of Literature, Science, and the Arts enrolled in the University for at least one semester.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

JOHN PITT MARSH SCHOLARSHIP

ORIGIN: Established in 1917 by bequest of Elia M. Walker of Chicago, in memory of her father, John Pitt Marsh.

ELIGIBILITY: Students in the College of Literature, Science, and the Arts enrolled in the University for at least one semester.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15. Selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

NATHAN D. METZGER PRIZE

ORIGIN: Established in 1939 by a gift of \$300 from Ruth R. Metzger of Detroit, in honor of her husband.

ELIGIBILITY: The student in the University who writes the best essay on post-Biblical history of the Jews, literature of the Jews, or philosophy of the Jews.

PROCEDURE: For particulars inquire at the office of the Department of Near Eastern Languages and Literatures, College of Literature, Science, and the Arts. Awarded by a special committee.

AWARD: Income of the fund.

NUMBER: One annually.

NOLA SAUER MINNIS PRIZE IN CHEMISTRY

ORIGIN: Established by Wesley Minnis of Buffalo, New York, in honor of Nola Sauer Minnis.

ELIGIBILITY: Outstanding undergraduate students in chemistry.

PROCEDURE: Consult the Chairman of the Department of Chemistry, College of Literature, Science, and the Arts. Selected by the Department of Chemistry.

AWARD: \$100.

NUMBER: One annually.

FRANCES HINKLEY MOORE SCHOLARSHIP

ORIGIN: Established in 1937 by bequest of Frances Hinkley Moore, B.S. '90, M.S. '99, of Benton Harbor, Michigan, as a source of small grants to meet emergencies.

ELIGIBILITY: Needy, worthy, and deserving students.

PROCEDURE: Consult the office of the Faculty Counselors of the College of Literature, Science, and the Arts.

AWARD: Variable with individual cases.

NUMBER: Variable.

MISS NEWMAN'S SCHOOL SCHOLARSHIP

ORIGIN: Established by the Board of Trustees of Miss Newman's Trustee Corporation, a Michigan corporation, in honor of Miss Newman's School, Detroit.

ELIGIBILITY: Women students who have completed at least one semester in the College of Literature, Science, and the Arts, who can present an acceptable scholarship record and who have proved need.

PROCEDURE: Applications reviewed by the Committee on University Scholarships, which will award the scholarship or scholarships on the recommendation of the Office of Financial Aids.

AWARD: Variable.

NUMBER: Variable.

HAROLD D. OSTERWEIL PRIZE IN ECONOMICS

ORIGIN: Established in 1945 by the Harold D. Osterweil Memorial Fund, Washington, D.C., and friends and associates in memory of Lieutenant Harold D. Osterweil, A.B. '41, killed in action in Normandy on July 31, 1944.

ELIGIBILITY: That graduating senior concentrating in economics who, in the opinion of the Department of Economics, is the most outstanding and promising student in the field of economics and who has shown the highest degree of social awareness.

PROCEDURE: No application. Awarded as an honor by the Department of Economics, College of Literature, Science, and the Arts.

AWARD: \$50.

NUMBER: One annually.

PHILLIPS CLASSICAL PRIZES

ORIGIN: Established in 1896 by bequest of Henry Phillips, Jr., of Philadelphia.

ELIGIBILITY: Freshman and sophomore students enrolled in elementary and intermediate courses in Greek and Latin in the College of Literature, Science, and the Arts; chosen on the basis of proficiency in the classical languages.

PROCEDURE: Special examination is set by the Department of Classical Studies. Competition open to freshman and sophomore students enrolled in the appropriate elementary and intermediate courses in Greek and Latin.

AWARD: Books on classical subjects with a specially designed bookplate.

NUMBER: Six annually.

SAMUEL J. PLATT SCHOLARSHIP

ORIGIN: Established in 1938 by bequest of Ursula L. Platt of Oakland, California, in memory of her son, Samuel J. Platt, A.B. '83, LL.B. '85.

ELIGIBILITY: By custom awarded alternate years to either prelaw students in the College of Literature, Science, and the Arts or students in the Law School who are worthy and needy.

PROCEDURE: Apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 15; selected by the Scholarship Committee of the College of Literature, Science, and the Arts.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable; given in alternate years.

EDGAR SCHWAIBOLD GERMAN PRIZE

ORIGIN: Established in 1957 by an annual gift of \$150 from Mr. Edgar Schwaibold, an industrialist of Ludington, Michigan. Created to foster interest in German culture and literature.

ELIGIBILITY: Senior students concentrating in German, enrolled in one or more senior courses in the Department of Germanic Languages and Literatures.

PROCEDURE: Inquire in the office of the Department of Germanic Languages and Literatures at the beginning of the spring semester. Awarded on the basis of an essay competition: two essays, one in English and one in German, on topics dealing with phases or works of German literature.

AWARD: First prize, \$100; second prize, \$50.

NUMBER: Two annually.

SIMS SENIOR HONOR SCHOLARSHIP IN ECONOMICS

ORIGIN: Established in 1948 by the gift of Ernest M. Sims, A.B. '06, B.S. (Mech.E.) '08, and his wife, Natalie C. Sims, of Elkhart, Indiana, in the interest of stimulating intellectual rivalry and high-quality achievement.

ELIGIBILITY: That student concentrating in economics who, upon completion of his junior year, is considered by the Department of Economics to be the most outstanding and promising student in this field.

PROCEDURE: No application. Awarded as an honor by the Department of Economics, College of Literature, Science, and the Arts.

AWARD: Approximately \$500.

NUMBER: One or two annually.

AGNES C. WEAVER SCHOLARSHIP

ORIGIN: Established in 1923 by bequest of Agnes C. Weaver, Ph.B. '84, M.D. '87, of Chicago, and increased in 1928 by bequest of Patrick J. Doyle of Chicago.

ELIGIBILITY: By custom, deserving students in the Medical School, but students enrolled in premedical courses in the College of Literature, Science, and the Arts may also apply.

PROCEDURE: Undergraduates apply to the Associate Dean of the College of Literature, Science, and the Arts. Applications must be returned to the office of the Associate Dean by March 1; selected by a special committee consisting of the Dean of the Medical School, the Dean of the College of Literature, Science, and the Arts, and the Director of Financial Aids, Chairman.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable; usually one.

Medical School

(Freshman or transfer students are not eligible for any of these scholarships.)

MISSSES ARMSTRONG SCHOLARSHIP

ORIGIN: Established in 1931 by the bequest of Jane E. Armstrong, who placed \$10,000 in trust with the Union Guardian Trust Company of Detroit, the interest on which is given to the University of Michigan Medical School.

ELIGIBILITY: Senior medical students who are (1) Caucasian and (2) American citizens born of American parentage.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable; paid by the trust company to the person designated by the Medical School.

NUMBER: One annually.

BORDEN UNDERGRADUATE RESEARCH AWARD IN MEDICINE

ORIGIN: Established in 1945 with a grant from the Borden Company Foundation, Inc., New York City.

ELIGIBILITY: Students in the Medical School.

PROCEDURE: No application. Awarded by the Executive Committee of the Medical School on the basis of faculty recommendation. Given in recognition of outstanding undergraduate research work in medicine.

AWARD: \$500 annually.

NUMBER: One, when a qualified candidate applies.

ROY BISHOP CANFIELD MEMORIAL FELLOWSHIP IN OTORHINO-LARYNGOLOGY

ORIGIN: Established in 1932 through the generosity of Mrs. R. B. Canfield of Ann Arbor, in memory of her husband's years of devotion to his department and in order that the influence which he had during his twenty-eight years of service in the Medical School might be continued in the training of young graduates of "such sincerity of purpose and of effort

that they will uphold the high standards to which Dr. Canfield pledged himself."

ELIGIBILITY: Young graduates, perhaps financially unable to carry on with honor work in the special field of otolaryngology.

PROCEDURE: Apply to the Chairman of the Department of Otorhinolaryngology.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

EDWARD SWIFT DUNSTER FELLOWSHIP IN OBSTETRICS AND GYNECOLOGY

ORIGIN: Established in 1936 and increased in 1938 by the children of the late Edward Swift Dunster, for many years and at the time of his death, Professor of Obstetrics in the Medical School.

ELIGIBILITY: Graduate students specializing in obstetrics and gynecology in the Medical School.

PROCEDURE: Apply to the Chairman of the Department of Obstetrics and Gynecology.

AWARD: Variable, depending on the income of the fund.

NUMBER: One, whenever the funds accumulate.

GALENS SCHOLARSHIP

ORIGIN: Established in 1940 by Galens Honorary Medical Society of the Medical School.

ELIGIBILITY: Deserving and needy medical students.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School and a committee from Galens.

AWARD: Variable, depending on the amount of income.

NUMBER: Variable, about four, depending on amount available.

DR. LOUIS MERWIN GELSTON FELLOWSHIP

ORIGIN: Established in 1936 by bequest of Lucia C. Gelston of Ann Arbor, as a memorial to her husband, Louis Merwin Gelston, A.B. '01, Ph.D. '03, M.D. '05.

ELIGIBILITY: Postgraduate research students in the field of medical science or in other fields as closely allied thereto as feasible; preference given those members of Nu Sigma Nu fraternity who have shown exceptional ability in medical research and who wish to carry on such work after graduation.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Determined by the Regents upon recommendation of the medical faculty. Duration of fellowship determined by the medical faculty.

NUMBER: One or more.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Juniors and seniors in the Medical School; awarded on the basis of scholarship and financial need.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable.

NUMBER: Variable.

JOHN K. HANNA MEDICAL STUDENT AID

ORIGIN: Established in 1947 by bequest of John K. Hanna, M.D. '84, of Grand Rapids.

ELIGIBILITY: Needy and deserving students in the Medical School who are residents of Michigan.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

KNAPP SCHOLARSHIP IN MEDICINE

ORIGIN: Established in 1938 by bequest of the late Lewis C. Knapp, M.D. '91, of Monroe, Michigan.

ELIGIBILITY: Undergraduate medical students.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable, depending on the proceeds of an annuity contract which Dr. Knapp made.

NUMBER: Variable.

ROLLO E. McCOTTER SCHOLARSHIP

ORIGIN: Established in 1949 by the Galens Honorary Medical Society in recognition of Dr. Rollo E. McCotter's years of devotion to medical students. Dr. McCotter, M.D. '10, was a former Professor of Anatomy at The University of Michigan.

ELIGIBILITY: Medical student with the highest scholastic standing in his class during his first year in the Medical School.

PROCEDURE: No application. Awarded by the faculty of the Medical School.

AWARD: \$250.

NUMBER: One.

**REVEREND HENRY W. MACK, ANNIE MACK, AND VIVIAN MACK
ERNST MEMORIAL SCHOLARSHIP**

ORIGIN: Established in 1945 by Allen A. Mack, Ph.C., Ina Mack Ivory, Clifford W. Mack, M.D. '08, E. Percy Mack, Ph.C. '12, and Harry W. Mack, D.D.S. '13, the immediate family of those for whom the fund is named.

ELIGIBILITY: Students in the two upper classes of the Medical School, the College of Pharmacy, and the School of Dentistry.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

WILLIAM H. MORLEY AND EDITH BRUCE MORLEY FUND

ORIGIN: Established in 1959 by bequest of Edith Bruce Morley.

ELIGIBILITY: Worthy undergraduate medical students in need of financial assistance.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable.

NUMBER: Variable.

WALTER R. PARKER SCHOLARSHIP

ORIGIN: Established in 1936 by bequest of the late Margaret Watson Parker of Detroit, wife of Dr. Walter Robert Parker, B.S.(Mech.E.) '88, formerly Professor of Ophthalmology in the Medical School.

ELIGIBILITY: Graduates of Class A medical schools who have completed one year's rotating internship in a hospital accredited by the American Medical Association and who must be eligible to enroll in the Horace H. Rackham School of Graduate Studies.

PROCEDURE: Apply to the Chairman of the Department of Ophthalmology before December 1 of the year preceding the year (July 1 to June 30) in which the scholarship will be held. Selected by the Department of Ophthalmology.

AWARD: Variable, depending on the income of the fund.

NUMBER: One annually.

WALTER T. AND MAUD H. PARKER FUND

ORIGIN: In 1959 the sum of \$20,000 was set aside from the estate of Walter T. Parker, '01 Med., and Maud Helen Parker as an expendable fund for scholarships for students in the Medical School.

ELIGIBILITY: Students in the Medical School.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable.

NUMBER: Variable.

HENRY SEWALL RESEARCH FELLOWSHIP

ORIGIN: Established in 1948 under the terms of a living trust created by Dr. Henry Sewall, M.D.(*hon.*) '88, Sc.D.(*hon.*) '12, Professor of Physiology at The University of Michigan from 1882 to 1889, and Isabel J. Sewall, his wife, of Denver, Colorado.

ELIGIBILITY: Graduate students doing research in the fields of medicine, physiology, and public health.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable.

NUMBER: One or more annually.

FRANCIS M. SHOOK MEDICAL SCHOLARSHIP

ORIGIN: Established in 1947 by bequest of Francis M. Shook, M.D. '04.

ELIGIBILITY: Students in the last year of their medical studies.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

STERNBERG MEMORIAL MEDAL

ORIGIN: Established in 1921 by gift from the widow of Dr. George M. Sternberg, LL.D. '94, of Washington, D.C., at one time Surgeon General of the United States Army.

ELIGIBILITY: That student in the Medical School who has the best record in the subject of preventive medicine.

PROCEDURE: No application. Awarded by the faculty of the Medical School on the recommendation of a committee consisting of several doctors.

AWARD: The medal.

NUMBER: One annually.

A. WALTER SUITER SCHOLARSHIP

ORIGIN: Established in 1939 by bequest of Dr. A. Walter Suiter, Utica, New York, who attended the Medical School in 1868-69.

ELIGIBILITY: Entering medical students with superior entrance examinations (1) residing in the Village of Herkimer, New York, (2) residing in the County of Herkimer, or in the absence of any such, (3) to candidates generally, preference being given to indigence, personal character, and general aptitude.

PROCEDURE: Apply to the Dean of the Medical School at the time of application for admission. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled senior medical students, residents of Michigan, who have high scholastic records and need financial assistance.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Equivalent to semester fees.

NUMBER: Three in the Medical School.

AGNES C. WEAVER SCHOLARSHIP

ORIGIN: Established in 1923 by bequest of Agnes C. Weaver, Ph.B. '84, M.D. '87, of Chicago, and increased in 1928 by bequest of Patrick J. Doyle.

ELIGIBILITY: By custom, deserving students in the Medical School, but students enrolled in premedical courses in the College of Literature, Science, and the Arts may also apply.

PROCEDURE: Medical students apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by a special committee consisting of the Dean of the Medical School, the Dean of the College of Literature, Science, and the Arts, and the Director of Financial Aids, Chairman.

AWARD: Variable, depending on the income of the fund.

NUMBER: Variable, usually one.

JOHN E. WEEKS SCHOLARSHIP FOR RESEARCH WORK IN OPHTHALMOLOGY

ORIGIN: Established in 1921 by a gift of \$10,000 from John E. Weeks, M.D. '81, Sc.D.(*hon.*) '12, of New York City.

ELIGIBILITY: Medical students doing research work in ophthalmology.

PROCEDURE: Apply to the Dean of the Medical School during or immediately after registration in the fall. Selected by the Scholarship Committee of the Medical School.

AWARD: Variable, depending on the income of the fund.

NUMBER: One, when a qualified candidate is found.

School of Music

JAMES L. BABCOCK SCHOLARSHIP

ORIGIN: Established in 1912 by bequest of about \$5,500 from James L. Babcock of Ann Arbor.

ELIGIBILITY: Students in the School of Music, for scholarship, general achievement, and character; usually awarded to a senior.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: Variable; approximately \$100.

NUMBER: One or two annually.

JOSEPH BRINKMAN MEMORIAL SCHOLARSHIP AWARD

ORIGIN: Established in 1961 by his wife and friends as a permanent memorial to Joseph Brinkman, Professor of Piano and head of the Piano Department in the School of Music, from 1934 until his death in 1960.

ELIGIBILITY: Students who are graduate piano majors in the School of Music who have proven themselves as outstanding performers and show exceptional promise for professional work in the field of piano. Students receiving the award are expected to be enrolled for the following academic year.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music from recommendations from the Piano Department.

AWARD: Variable, depending on the income of the fund.

NUMBER: One annually.

CHAMBER MUSIC SOCIETY OF ANN ARBOR SCHOLARSHIP

ORIGIN: Established in 1930 by a gift from the Chamber Music Society of Ann Arbor.

ELIGIBILITY: Students enrolled in the School of Music who show good scholarship, musical talent, financial need, and general worthiness; by tradition, awarded for distinguished contribution in the field of chamber music performance.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music in co-operation with the University Musical Society.

AWARD: \$100.

NUMBER: One, whenever accumulated income permits.

DELTA OMICRON SCHOLARSHIP

ORIGIN: Established in 1933 by a gift of \$200 from the Delta Omicron sorority of Ann Arbor, and increased by further gifts and accumulated income.

ELIGIBILITY: Students enrolled in the School of Music; for merit and need; preferably to a woman student.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music in co-operation with the University Musical Society.

AWARD: Variable.

NUMBER: One, whenever accumulated income permits.

OLIVER DITSON SCHOLARSHIP

ORIGIN: Established in 1932 with a gift of \$100,000 from Charles H. Ditson of New York City, as a permanent memorial to his father, Oliver Ditson.

ELIGIBILITY: Any student may apply. Scholarship application of an entering student, however, will be acted upon only after the applicant has been admitted to the School of Music.

PROCEDURE: Application and recommendation forms, obtainable from the office of the Dean of the School of Music, must be completed and filed with the Chairman of the Committee on Scholarships and Awards of the School of Music by February 1 for the following academic year. Selected by the committee.

AWARD: Approximately one-half of the semester fee.

NUMBER: Variable.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Any student may apply. Scholarship application of an entering student, however, will be acted upon only after the applicant has been admitted to the School of Music.

PROCEDURE: Application and recommendation forms, obtainable from the office of the Dean of the School of Music, must be completed and filed with the Chairman of the Committee on Scholarships and Awards of the School of Music by February 1, for the following academic year. Selected by the committee.

AWARD: Approximately one-half of the semester fee.

NUMBER: Approximately thirty.

ALBERT LOCKWOOD MEMORIAL SCHOLARSHIP

ORIGIN: Established in 1934 by a group of friends and admirers as a permanent memorial to the late Albert Lockwood, who was head of the Piano Department of the University School of Music from 1900 until his death in 1933.

ELIGIBILITY: Students enrolled in the School of Music. Awarded on the basis of outstanding ability rather than financial need and, by tradition, to a senior pianist.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music in co-operation with the University Musical Society.

AWARD: Variable; approximately \$100.

NUMBER: One annually.

EARL V. MOORE SCHOLARSHIP

ORIGIN: Established in 1960 by friends and alumni of the School of Music to honor Dean Earl V. Moore's long and distinguished service to music and The University of Michigan.

ELIGIBILITY: Junior, senior, and graduate students who intend to pursue further study in the School of Music; awarded on the basis of outstanding achievement in music and established instance of need.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music on recommendation of the faculty.

AWARD: Variable.

NUMBER: One or more annually.

MU PHI EPSILON SCHOLARSHIP

ORIGIN: Established in 1938 by Gamma Chapter of Mu Phi Epsilon and maintained by annual contribution.

ELIGIBILITY: That sophomore woman who, on completing three semesters of full-time enrollment, has maintained the highest general academic average (not less than 3.0 honor points) in the School of Music; awarded on the basis of character and personality as well. In the event that the latter two requirements are not met, consideration is given to the candidate with the next highest average.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: \$50.

NUMBER: One annually.

PI KAPPA LAMBDA FRESHMAN AWARD

ORIGIN: Established by Chi Chapter of Pi Kappa Lambda to honor a freshman student.

ELIGIBILITY: The freshman student who attains the highest grade-point average.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: An important publication in the major field of the selected student.

NUMBER: One annually.

PI KAPPA LAMBDA SCHOLARSHIP

ORIGIN: Established in 1951 by Chi Chapter of Pi Kappa Lambda and maintained by annual contribution.

ELIGIBILITY: Graduate students in the School of Music; in recognition of achievement in scholarship with special emphasis on accomplishment in thesis, recital, or composition.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music in co-operation with Chi Chapter of Pi Kappa Lambda.

AWARD: \$100.

NUMBER: One annually.

PRESSER MUSICAL SCHOLARSHIP

ORIGIN: Contributed from time to time by the Presser Foundation of Philadelphia.

ELIGIBILITY: Students enrolled in the School of Music who are pursuing practical courses in music, preferably those whose aim is the teaching of music and who show promise of a distinguished career. Approximately one-third of the total credit hours must be in subjects of general academic nature.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: \$100.

NUMBER: One or two each semester.

JOHN REED COMPOSITION AWARD

ORIGIN: Established by the Baptist Church of Ann Arbor in 1957; it provides an award for the best anthem, of moderate length, suitable for use in a worship service.

ELIGIBILITY: Open to competition among all students of the School of Music.

PROCEDURE: Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: \$50.

NUMBER: One annually.

SIGMA ALPHA IOTA SCHOLARSHIP AWARD

ORIGIN: Established in 1945 by Alpha Chapter of Sigma Alpha Iota and maintained by annual contribution.

ELIGIBILITY: That woman of junior standing in the School of Music with the highest grade-point average; awarded on the basis of personality and general ability as well. In the event that the latter two requirements are not met, consideration is given to the candidate with the next highest average.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: \$50.

NUMBER: One annually.

ALBERT A. STANLEY MEDAL

ORIGIN: Established in 1922 when the first medal, struck in honor of the long and distinguished service of Albert A. Stanley as Music Director of the School of Music and Professor of Music in The University of Michigan, was presented to Dr. Stanley. Replicas awarded to students as the highest honor of the School of Music.

ELIGIBILITY: That senior in the School of Music who, during at least two years of residence, has been most outstanding in his profession, with special consideration being given to public performance and scholarship.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music.

AWARD: The medal.

NUMBER: Awarded annually if a suitable candidate is available.

ELSA GARDNER STANLEY SCHOLARSHIP

ORIGIN: Established in 1933 by a gift from the alumni of the School of Music as a permanent memorial to the late Elsa Gardner Stanley, A.B. '06, a graduate of the School of Music and a member of its faculty for several years.

ELIGIBILITY: Students enrolled in the School of Music who show merit.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music in co-operation with the University Musical Society.

AWARD: Variable.

NUMBER: One; may be given to one person or divided between two persons.

UNIVERSITY BAND MERIT AWARD

ORIGIN: Established in 1941 with the approval of the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled members of the Marching or Concert bands who (1) must participate in all rehearsals and public appearances of the Band unless excused by the conductor and (2) must maintain a C average during the semester in which the award is made.

PROCEDURE: Apply during registration week of the fall semester in Harris Hall. Selected on the basis of auditions and interviews with the conductor which determine (1) scholastic eligibility, (2) musicianship, and (3) responsibility and service. Awarded at the end of the fall and spring semesters.

AWARD: \$40 for participation in the Marching Band for the football season and an additional \$75 if eligible for participation in the Concert Band for the school year; first-chair players of the Concert Band receive \$150 in lieu of the \$75.

NUMBER: 150 for the Marching Band; 95 for the Concert Band.

KENNETH VAN DER HEUVEL MEMORIAL SCHOLARSHIP

ORIGIN: Established by Mrs. Kenneth Van der Heuvel in memory of her husband, Kenneth Van der Heuvel, oboist and distinguished alumnus of the School of Music.

ELIGIBILITY: Undergraduate oboists who show exceptional promise in performance.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music upon the recommendation of the Professor of Oboe and the Wind Instrument Department.

AWARD: Variable.

NUMBER: One annually.

JOHN WOLAVER MEMORIAL SCHOLARSHIP

ORIGIN: Established by friends of John Wolaver, distinguished pianist, teacher, and graduate of the School of Music.

ELIGIBILITY: Piano majors in the School of Music who show evidence of superiority both as pianists and students in general.

PROCEDURE: No application. Selected by the Committee on Scholarships and Awards of the School of Music upon the recommendation of the Piano Department.

AWARD: Variable.

NUMBER: One annually.

School of Natural Resources

ALUMNI WAR MEMORIAL AWARD

ORIGIN: Established in 1948 by the Michigan Foresters' Association; honors University of Michigan Foresters who lost their lives in World War II.

ELIGIBILITY: Students in the School of Natural Resources with outstanding performance in scholarship, personal qualifications, and leadership. Limited to undergraduates and master's degree candidates who have been in residence at least three consecutive semesters, including at least one in the current academic year.

PROCEDURE: No application. Selected by the School of Natural Resources.

AWARD: \$100 and inscription of name on a plaque.

NUMBER: One annually.

ANN ARBOR BRANCH, WOMAN'S NATIONAL FARM AND GARDEN ASSOCIATION SCHOLARSHIP IN NATURAL RESOURCES

ORIGIN: Established in 1946 by contribution from the Ann Arbor Branch of the Woman's National Farm and Garden Association.

ELIGIBILITY: Undergraduate students in the School of Natural Resources. Award is based on scholarship and financial need.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the School of Natural Resources.

AWARD: Variable.

NUMBER: Variable.

BLOOMFIELD HILLS BRANCH, WOMAN'S NATIONAL FARM AND GARDEN ASSOCIATION SCHOLARSHIP IN NATURAL RESOURCES

ORIGIN: Established in 1952 by contribution from the Bloomfield Hills Branch of the Woman's National Farm and Garden Association.

ELIGIBILITY: Undergraduate students in the School of Natural Resources, preferably residents of Michigan. Award is based on scholarship and financial need.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the School of Natural Resources.

AWARD: Variable.

NUMBER: Variable.

CARLETON-McCARRON FORESTRY SCHOLARSHIP

ORIGIN: Established in 1961 by a gift from Mr. G. M. Carleton, Vice-President of the Scott Paper Company, to assist graduate and undergraduate students studying forestry.

ELIGIBILITY: Students in the field of forestry.

PROCEDURE: Apply to the Dean, School of Natural Resources.

AWARD: Variable.

NUMBER: Variable.

THE SAMUEL TRASK DANA AWARD IN CONSERVATION

ORIGIN: Established in 1960 by the University of Michigan Chapter of the Soil Conservation Society of America. Sponsored by the Department of Conservation in recognition of Samuel Trask Dana's outstanding contributions in the field of resource management and conservation. Professor Dana was former Dean of the School of Natural Resources until his retirement in 1953.

ELIGIBILITY: Students in the Department of Conservation. Awarded on the basis of scholarship and service.

PROCEDURE: No application. Selected by the sponsors.

AWARD: \$100 and inscription of name on a plaque.

NUMBER: One annually.

FELLOWSHIP FOR FOREIGN STUDENTS IN THE SCHOOL OF NATURAL RESOURCES

ORIGIN: Established in 1952 by an anonymous donor to assist needy foreign students in the School of Natural Resources.

ELIGIBILITY: Students in the School of Natural Resources from foreign countries.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the School of Natural Resources.

AWARD: Variable.

NUMBER: Variable.

FORESTRY FACULTY AWARD

ORIGIN: Established in 1954 by the faculty of the Department of Forestry to recognize the student attaining the highest scholastic average during his undergraduate studies in forestry.

ELIGIBILITY: Seniors in forestry in the School of Natural Resources.

PROCEDURE: No application. Selected by the faculty of the Department of Forestry on the basis of scholarship and other performance.

AWARD: A notable book in the field of forestry.

NUMBER: One annually.

FURNITURE MANUFACTURERS ASSOCIATION OF GRAND RAPIDS SCHOLARSHIP

ORIGIN: Re-established in 1958 to assist students in wood technology, particularly those majoring in the furniture technology and management curriculum.

ELIGIBILITY: Students in wood technology; on the basis of scholarship and need.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the Department of Wood Science and Technology.

AWARD: \$500.

NUMBER: One annually.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in the School of Natural Resources; awarded on the basis of scholarship and financial need.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the School of Natural Resources.

AWARD: Variable; generally one semester's fees.

NUMBER: Variable.

THE DAVID AND MARIAN GREENBERG AWARD IN FISHERIES

ORIGIN: Originated in 1959 by a grant from the Greenberg Foundation and inspired by the interest of David and Marian Greenberg in the role of fish culture in the solution of world food and recreation problems.

ELIGIBILITY: Upperclass students in fisheries with high academic record.

PROCEDURE: No application. Selected by the Department of Fisheries.

AWARD: A two-year membership in the American Fisheries Society.

NUMBER: One annually.

ALVAN MACAULEY SCHOLARSHIP IN NATURAL RESOURCES

ORIGIN: Established in 1952 by a gift from Mrs. Alvan Macauley of Pasadena, California, in memory of her husband.

ELIGIBILITY: Students who have been granted the bachelor's degree and have been accepted by the School of Natural Resources or the Rackham School of Graduate Studies for graduate work in the School of Natural Resources, and who have not previously been enrolled for graduate work at The University of Michigan.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the School of Natural Resources.

AWARD: \$1,000.

NUMBER: One biennially.

DONALD M. MATTHEWS MEMORIAL AWARD

ORIGIN: Established in 1948 from a fund set up by alumni and faculty of the School of Natural Resources to honor the memory of Professor Donald M. Matthews.

ELIGIBILITY: Students in the field of forest management.

PROCEDURE: No application. Selected by the Department of Forestry.

AWARD: \$75 and inscription of name on a plaque.

NUMBER: One annually.

CHARLES LATHROP PACK FOUNDATION PRIZE IN FORESTRY

ORIGIN: Established in 1923 by a gift from Charles L. Pack of Lakewood, New Jersey.

ELIGIBILITY: The student in the School of Natural Resources who, in competition, writes the best article dealing with a subject in the field of natural resources.

PROCEDURE: Competition announced by the committee in charge early in the fall semester. Titles of proposed papers should be filed with the committee prior to Christmas, and final papers should be submitted the spring semester. Selected by that committee.

AWARD: \$100.

NUMBER: One biennially.

SCHOEN-RENE FELLOWSHIP

ORIGIN: Established by Mrs. Anna Schoen-René through the New York Community Trust.

ELIGIBILITY: Graduate students in the School of Natural Resources; based on scholarship and financial need.

PROCEDURE: No application. Selected by the School of Natural Resources.

AWARD: Variable.

NUMBER: Variable.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled seniors in the School of Natural Resources, residents of Michigan, who have high scholastic records and need financial assistance.

PROCEDURE: Apply to the Dean, School of Natural Resources. Selected by the School of Natural Resources.

AWARD: Equivalent to semester fees.

NUMBER: One in the School of Natural Resources.

HOWARD M. WIGHT MEMORIAL AWARD

ORIGIN: Established in 1943 from a fund set up by alumni of the School of Natural Resources to honor the memory of Professor Howard M. Wight.

ELIGIBILITY: A student in wildlife management possessing high scholarship and prospects of accomplishment in this field.

PROCEDURE: No application. Selected by the Department of Wildlife Management.

AWARD: \$50 and inscription of name on a plaque.

NUMBER: One annually.

WOOD TECHNOLOGY SENIOR AWARD

ORIGIN: Established in 1958 by the faculty of the Department of Wood Science and Technology.

ELIGIBILITY: Seniors in the Department of Wood Science and Technology.

Award is based on performance as a student and promise in the field.

PROCEDURE: No application. Selected by the Department of Wood Science and Technology.

AWARD: Knife, hand lens, and inscription of name on a plaque.

NUMBER: One annually.

XI SIGMA PI UNDERCLASSMAN AWARD

ORIGIN: Established in 1959 by Upsilon Chapter of Xi Sigma Pi. Award to recognize the undergraduate student in the School of Natural Resources attaining the highest scholastic average during three semesters, including the freshman year and first semester sophomore year at The University of Michigan.

ELIGIBILITY: Sophomore students of the School of Natural Resources.

PROCEDURE: No application. Selected by the local chapter.

AWARD: Certificate and inscription of name on a plaque.

NUMBER: One annually.

School of Nursing

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students enrolled in the School of Nursing who have high scholarship and financial need.

PROCEDURE: Apply early in the fall semester to the Dean of the School of Nursing. Selected by the School of Nursing.

AWARD: Variable.

NUMBER: Variable.

SHIRLEY C. TITUS SCHOLARSHIP

ORIGIN: Established by the Class of 1930 of the University of Michigan School of Nursing in recognition of the outstanding services of Shirley C. Titus as Director of the School of Nursing from 1925 to 1930.

ELIGIBILITY: Any graduate of the School of Nursing who has demonstrated outstanding ability in the theory and art of nursing. The graduate must give evidence of a specific plan for advanced study in nursing and must enroll in the school of choice within the year in which the scholarship is granted.

PROCEDURE: Applications must be submitted by April 1 to the Alumnae Association of the School of Nursing, Alumni Memorial Hall, Ann Arbor.

AWARD: \$400.

NUMBER: One annually.

ELLEN H. TOPOREK MEMORIAL AWARD

ORIGIN: Established in 1955 by Mr. and Mrs. Milton H. Toporek in memory of their daughter.

ELIGIBILITY: A nursing student who exhibits a high degree of excellence and aptitude in pediatric nursing.

PROCEDURE: Selection of the student who will receive the award is made by the faculty in pediatric nursing.

AWARD: \$50 annually.

NUMBER: One.

College of Pharmacy

AMERICAN FOUNDATION FOR PHARMACEUTICAL EDUCATION UNDERGRADUATE SCHOLARSHIP

ORIGIN: Established in 1942 by the directors of the American Foundation for Pharmaceutical Education in all colleges of pharmacy accredited by the American Council on Pharmaceutical Education.

ELIGIBILITY: Men or women who (1) are juniors or seniors in the College of Pharmacy, (2) have at least a B average, and (3) are in financial need.

PROCEDURE: Apply to the Dean of the College of Pharmacy preferably at least two months before the beginning of the semester.

AWARD: \$50 to \$200 a semester.

NUMBER: Variable; to total \$400 a year.

BRISTOL AWARD

ORIGIN: Established by the Bristol Laboratories in 1958.

ELIGIBILITY: To an outstanding senior for over-all achievement.

PROCEDURE: No application required. Awarded by the College of Pharmacy in the spring at the annual pharmacy banquet.

AWARD: An unabridged medical dictionary.

NUMBER: One.

JULIA E. EMANUEL SCHOLARSHIP FOR GIRLS

ORIGIN: Established by Miss Julia E. Emanuel, a graduate of the College of Pharmacy in 1889.

ELIGIBILITY: Women students, one or more, who are judged to be outstanding in scholarship, citizenship, and professional contributions.

PROCEDURE: No application. Awarded by the College of Pharmacy.

AWARD: \$125 or \$250 annually.

NUMBER: One or two.

WILLIAM E. FINLEY SCHOLARSHIP

ORIGIN: Established in 1939 by bequest of William E. Finley, Ph.C. '79, formerly of Hastings, Michigan.

ELIGIBILITY: Worthy young men in the College of Pharmacy who need financial assistance.

PROCEDURE: Apply to the Dean of the College of Pharmacy. Chosen by a faculty committee of the College of Pharmacy.

AWARD: Variable.

NUMBER: One.

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in the College of Pharmacy. Awarded on the basis of scholarship and financial need.

PROCEDURE: No application. Chosen by a faculty committee of the College of Pharmacy.

AWARD: Variable.

NUMBER: Variable.

HARRY HELFMAN PHARMACY STUDENT AID

ORIGIN: Established in 1943 by bequest of Harry Helfman, A.B. '98, LL.B. '00, of Detroit.

ELIGIBILITY: Worthy students, including freshmen and transfers, who are financially unable to enter upon or to complete satisfactorily their professional work in the College of Pharmacy.

PROCEDURE: Apply to the Dean of the College of Pharmacy preferably at least two months before the beginning of the semester.

AWARD: Semester fees.

NUMBER: As many as are needed.

LAMBDA KAPPA SIGMA AWARD

ORIGIN: Established by the Alpha Delta Chapter of Lambda Kappa Sigma.

ELIGIBILITY: Senior standing and judged to be outstanding in service to the University and the College.

PROCEDURE: No application. Awarded by the College of Pharmacy.

AWARD: Pharmacy reference book.

NUMBER: One annually.

LEHN AND FINK PRIZE

ORIGIN: Established through the generosity of Lehn and Fink of New York City.

ELIGIBILITY: That member of the senior class in the College of Pharmacy who achieves the highest scholarship average.

PROCEDURE: No application. Chosen by a faculty committee of the College of Pharmacy.

AWARD: A gold medal.

NUMBER: One annually.

MERCK AWARD

ORIGIN: Established by Merck and Company, Inc., of Rahway, New Jersey.

ELIGIBILITY: The senior student who has attained the highest standing in courses in pharmaceutical chemistry.

PROCEDURE: No application. Presented by the company through the College of Pharmacy.

AWARD: The current editions of *The Merck Index* and *The Merck Manual*.

NUMBER: One annually.

PHARMACY ADMINISTRATION PRIZE

ORIGIN: Established by the *Central Pharmaceutical Journal*.

ELIGIBILITY: Senior student having the highest average grades in courses in pharmacy administration.

PROCEDURE: No application. Awarded by the College of Pharmacy.

AWARD: \$25.

NUMBER: One annually.

RHO CHI PRIZES

ORIGIN: Established by the Alpha Chapter (The University of Michigan) of Rho Chi Honorary Society.

ELIGIBILITY: The students with the highest scholarship average in the sophomore and in the junior classes.

PROCEDURE: No application. Awarded by the Society.

AWARD: Copies of a pharmacy reference book.

NUMBER: Two annually.

RHO CHI SCHOLARSHIP

ORIGIN: Established by Alpha Chapter of Rho Chi, the national pharmacy honor society.

ELIGIBILITY: Sophomore standing and having shown the most significant scholastic improvement during the two semesters preceding.

PROCEDURE: No application. Awarded by the College of Pharmacy.

AWARD: \$25.

NUMBER: One or two annually.

CHARLES H. STOCKING AWARD

ORIGIN: Established by Alpha Chapter of Phi Delta Chi.

ELIGIBILITY: Most deserving student in the College of Pharmacy.

PROCEDURE: No application. Awarded by the College of Pharmacy.

AWARD: Pharmacy reference book.

NUMBER: One annually.

School of Public Health

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students in the School of Public Health; awarded on the basis of good scholarship and need.

PROCEDURE: Apply to the Dean of the School of Public Health during or immediately after registration for the fall and spring semesters. Selected by the School of Public Health.

AWARD: Variable.

NUMBER: Variable.

WILLIAM C. GIBSON MEMORIAL AWARD

ORIGIN: Established in 1962 from a fund set up by friends, alumni, and faculty of the School of Public Health to honor the memory of Professor William C. Gibson.

ELIGIBILITY: Students in the School of Public Health; based on outstanding scholarship in the field of environmental health.

PROCEDURE: No application. Awarded by faculty committee of the School of Public Health.

AWARD: \$50, gold key, certificate of award, and inscription of name on plaque.

NUMBER: One annually.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: For regularly enrolled seniors in the School of Public Health, residents of Michigan, who have high scholastic records and need financial assistance.

PROCEDURE: Apply to the Dean of the School of Public Health during or immediately after registration for the fall and spring semesters. Selected by the School of Public Health.

AWARD: Equivalent to semester fees.

NUMBER: One in the School of Public Health.

OTHER SCHOLARSHIPS

A variety of scholarships, fellowships, and stipends is available to students in the School of Public Health from the United States Public Health Service. These are available both for general training and specialized training in such fields as environmental health, biostatistics, microbiology, epidemiology, dentistry, medical care, and chronic disease. Information concerning these scholarships, fellowships, and stipends may be obtained from the Dean of the School of Public Health.

School of Social Work

GENERAL UNIVERSITY SCHOLARSHIPS

ORIGIN: Established in 1947 and maintained by annual appropriation by The University of Michigan.

ELIGIBILITY: Students admitted to, or enrolled in, the School of Social Work; awarded on the basis of scholarship and need.

PROCEDURE: Apply to the Chairman of the Admissions and Scholarship Committee of the School of Social Work early in the semester preceding the semester for which the scholarship is requested.

AWARD: Semester fees.

NUMBER: Variable.

UNIVERSITY SCHOLARSHIPS IN THE PROFESSIONAL SCHOOLS

ORIGIN: Established in 1932 by the Regents of The University of Michigan.

ELIGIBILITY: Regularly enrolled second-year students in the School of Social Work, residents of Michigan, who have high scholastic records and who need financial assistance.

PROCEDURE: Apply to the Chairman of the Admissions and Scholarship Committee of the School of Social Work early in the semester preceding the semester for which the scholarship is requested.

AWARD: Equivalent to semester fees.

NUMBER: One in the School of Social Work.

OTHER SCHOLARSHIPS

Graduate Assistantships

ORIGIN: Allocated each year by the Regents of The University of Michigan.

ELIGIBILITY: Scholarship, need, abilities needed for special assignments, full-time candidate for the M.S.W. degree.

PROCEDURE: Apply to the Chairman of the Admissions and Scholarship Committee of the School of Social Work, early in the semester preceding the semester for which the scholarship is requested.

AWARD: \$500 a semester, requiring 160 hours of service in connection with activities of the School of Social Work.

NUMBER: Variable.

National Institute of Mental Health

ORIGIN: Traineeship funds received by the University from the United States Public Health Service.

ELIGIBILITY: Scholarship, need, United States citizenship, full-time candidate for the M.S.W. degree, preparing for practice in the field of mental health. This may be in casework, group work, or community mental health services, and in a variety of settings such as mental hospitals or clinics, correctional institutions, juvenile courts, schools, or programs for the aging.

PROCEDURE: Apply to the Chairman of the Admissions and Scholarship Committee of the School of Social Work, early in the semester preceding the semester for which the scholarship is requested.

AWARD: \$1,800 plus semester fees for first year of graduate study; \$2,000 plus semester fees for second year of graduate study.

NUMBER: Variable.

Vocational Rehabilitation Administration

ORIGIN: Traineeship funds received by the University from the Vocational Rehabilitation Administration of the United States Department of Health, Education, and Welfare.

ELIGIBILITY: Scholarship, need, United States citizenship, full-time candidate for the M.S.W. degree, preparing for social-work practice in the field of vocational rehabilitation. This may be in hospitals, rehabilitation centers, and other medical settings.

PROCEDURE: Apply to the Chairman of the Admissions and Scholarship Committee of the School of Social Work, early in the semester preceding the semester for which the scholarship is requested.

AWARD: \$1,800 plus semester fees for the first year of graduate study; \$2,000 plus semester fees for the second year of graduate study.

NUMBER: Variable.

Various Agency Scholarships

ORIGIN: Funds from social welfare programs and agencies in many communities in Michigan and other states and from national organizations.

ELIGIBILITY: Interest in employment with the agency following completion of a program of studies. Must meet the employment requirements of the agencies as relating to special qualifications, residence, citizenship, and usually willingness to accept employment with the agency following completion of a program of studies.

PROCEDURE: Application is made to the specific agency in which the applicant is interested. Information about various programs can be obtained from the Chairman of the Admissions and Scholarship Committee of the School of Social Work.

AWARD: Range of \$50 to \$350 a month.

NUMBER: Variable.

Bequests and Other Gifts

The University of Michigan has in recent years become more and more frequently the recipient of bequests and donations from public-spirited alumni and citizens of Michigan and other states who see in this University a means of serving the present and the future. More than one-fourth of the University's permanent assets in lands, buildings, and equipment have been contributed. The University has more than five hundred permanently endowed trust funds. These funds are administered with most scrupulous and precise attention to the terms and conditions laid down by the donors. The University is always desirous to widen its field of service by receiving gifts of funds to be held in trust to provide professorships, scholarships, loans, and other benefits, as illustrated by the description of these already-existing trust funds. Correspondence on the subject of needs is solicited and will receive prompt candid replies. Persons desiring to place property in trust permanently for the benefit of education may well remember that "The Regents of the University of Michigan" is a constitutional corporation, the highest form of body corporate known to the law.

The forms given below are not intended to take the place of the services of a competent attorney in the drafting of a will, but they may be suggestive and stimulating to the mind of a public-spirited citizen contemplating the making of a will or a gift during his or her lifetime, and they are believed to be in legal form adapted to inclusion in a will. A form of bequest is as follows:

I give, devise, and bequeath to The Regents of the University of Michigan
.....
.....
(here insert the sum or the property bequeathed)
.....
for the following purposes
.....
(here insert the purpose of the bequest)

In the light of experience, even in so young a country as the United States of America, it is apparent that no one can unmistakably read the future. This fact has resulted in reducing to practical uselessness certain bequests made in earlier days for purposes then important to various of the older educational institutions of the country. With the idea of permitting the most useful continuance of a benefaction in general accord with the purposes of the donor even if with the changes of the years the precise original purpose of the gift should prove to be no longer a real need, it is suggested that such a benefaction, the income of which is to be devoted to a specified purpose, might wisely contain a clause similar in general to the following:

In the event that, in the opinion of the said Regents, the needs, to meet which this bequest is made, should pass out of existence with the passage of time or not require all of the income provided, then the said Regents are hereby expressly given authority and charged with the duty to use the said income or so much of it as in their discretion may seem for the best advantage of the University, for other purposes allied to or in harmony with the spirit and purpose of this bequest as above expressed; or if such approximation of my specific purpose is in the discretion

of the Regents inexpedient or impracticable, then and in that event the Regents shall use the income for whatever educational or University needs they may see fit, as trustees of the University in general and of this fund in particular, since it is my purpose and intent that the income shall not lie idle and useless but shall be active and useful in contributing currently to the benefit of mankind through education.

Further, modern givers of large sums have in numerous instances taken the grounds (1) that owing to changes in social and economic conditions no one can foresee the future with sufficient clearness to warrant making any bequest for specific purposes in perpetuity, and (2) that if trustees are competent and worthy to be entrusted with investment of the principal and use of the income, they are competent to use the principal in the light of future social and economic conditions. Should a testator desire to give such discretion to the Regents at the end of a period of years he could do so by use of the following or a similar clause:

If after this bequest shall have been in operation for years or more the Regents within their discretion as trustees shall believe that my general purpose in making this bequest, namely, the benefit of mankind through education, would be better served by the expenditure of both principal and income than by the continued expenditure of the income only, then and in that event the said Regents are expressly authorized and empowered to sell the securities or other property in which such principal shall then be invested, or to sell any part thereof, and to expend the proceeds thereof as may in their opinion at that time be for the best advantage of The University of Michigan.

Sec. 2.14. Policy on Nondiscrimination. The University shall not discriminate against any person because of race, color, religion, creed, national origin, or ancestry. Further, it shall work for the elimination of discrimination (1) in private organizations recognized by the University and (2) from non-University sources where students and the employees of the University are involved. (*R.P.*, November 20, 1959, p. 1099)

—*Bylaws of the Board of Regents
of The University of Michigan*

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FOREWORD

This list represents the accredited high schools in the state of Michigan for the year 1963-64. The Schools listed are entitled to the privileges accorded by universities, colleges, and the regional associations to accredited secondary schools.

KENT W. LEACH

Director, Bureau of School Services

MICHIGAN ACCREDITED SCHOOLS

1963-1964

Schools Listed by Post Office Address	Administrators During 1962-1963		Type of Organization	Number of High School Teachers	Graduates 1962	Accreditation Date
	Superintendent	Principal				
Addison High School	Joseph Puvogel	O. Paul Krueger	6-6	21	50	1916
Adrian:						
<i>Adrian Catholic Central H. S.</i>		Sister Grace Alice	8-4	10	42	1933
*Adrian High School	William L. Austin	Robert L. Hayden	6-3-3	47	253	1871
Madison High School	Archie O. Wallace	Dewey Farris	6-6	23	38	1959
* <i>St. Joseph Academy</i>		Sister M. Jean Cecile	8-4	12	35	1924
*Albion: Washington Gardner H. S.	Carl Brautigam	Harry Williams	6-3-3	39	143	1890
*Algonac High School	Kenneth S. King	George A. Johnson	6-2-4	35	100	1918
*Allegan Senior High School	L. E. White	Jarvis Wotring	6-3-3	32	142	1890
*Allen Park High School	William C. Harris	Harold Oatley	8-4	81	350	1951
*Alma Senior High School	Homer D. Hendricks	John C. Noell	6-3-3	31	180	1900
Almont High School	Eugene M. Nikkari	Theodore J. Nitz	7-5	15	41	1928
Alpena:						
*Alpena High School	John W. Brubacher	M. E. Finch	8-4	72	277	1884
<i>Catholic Central H. S.</i>		Rev. John W. Troester	8-4	23	122	1951
Alpha High School	Victor Borga	Ida Grieshammer	6-6	13	6	1921
Ann Arbor:						
*Ann Arbor High School	Jack Elzay	Nicholas Schreiber	6-3-3	126	561	1871
<i>St. Thomas the Apostle H. S.</i>		Sister Stephane	8-4	16	68	1908
* <i>University High School</i>		Robert S. Fox	6-6	53	63	1927
Armada High School	Edward J. Stafinski	Warren A. Dolsen	7-5	19	54	1950
Ashley Community High School	James W. Tossey	Richard T. Muessig	6-6	13	45	1950
Athens Area High School	K. E. Lautzenheiser	A. W. Roberson	6-2-4	17	68	1912
Atlanta Community High School	Donald Culver	Joe Peck	7-5	10	37	1951
*Auburn Heights: Avondale High School	George Shackelford	Roso V. Crowell	5-3-4	33	105	1938
Au Gres: Au Gres-Sims H. S.	Douglas B. Eaton	Wallace R. Jennings	6-6	10	21	1955
Bad Axe High School	K. William Pietscher	Ervin R. Ignash	6-6	25	91	1906
Baldwin High School	Harold B. Nichols	Vernon F. Moerdyk	6-6	18	31	1931
*Bangor High School	Lewis C. Wood	Howard Beyer	6-2-4	22	88	1902
Baraga Township High School	E. E. Erickson	Arthur M. Kujansuu	6-6	16	37	1915
Barryton Rural Agriculture H. S.	Raymond Brabo	Paul Jorgensen	6-3-3	15	44	1918
Bath High School	L. H. Latchaw	John B. Hayes	6-6	19	43	1963
Battle Creek:						
<i>Battle Creek Academy</i>	B. G. Butherus	Stephen W. Young	8-4	8	19	1963
*Battle Creek Central H. S.	Harry R. Davidson	John W. Postma	6-3-3	83	429	1876
*Harper Creek High School	Howard Nunn	R. G. Barker	6-3-3	31	100	1960
*Lakeview High School	Lloyd C. TeSelle	T. N. Thomas	5-3-4	60	202	1924
Pennfield High School	Russell A. Newell	John Dechow	8-4	27	71	1958
<i>St. Philip High School</i>		Sister M. Frances	8-4	14	63	1925
*Springfield High School	R. Bruce Sellers	Charles H. Miller	6-2-4	27	74	1957

EXPLANATORY NOTE: This list contains 686 schools accredited by The University of Michigan. 298 of these schools are also accredited by the North Central Association of Colleges and Secondary Schools. The names of nonpublic schools are printed in italics. An asterisk (*) before the name of a school indicates that it is a member of the North Central Association of Colleges and Secondary Schools. The accreditation date is the date since continuous accrediting. Type of organization: 7-5, for example, means seven years of elementary school and five years of high school or secondary school; 6-3-3 means six years of elementary school, three years of intermediate school, and three years of high school or secondary school.

Schools Listed by Post Office Address	Administrators During 1962-1963		Type of Organization	Number of High School Teachers	Graduates 1962	Accreditation Date
	Superintendent	Principal				
Bay City:						
*Central High School	Elwyn J. Bodley	T. B. Southerland	8-4	104	414	1883
*T. L. Handy High School	Elwyn J. Bodley	Arthur H. Cansfield	4-4-4	90	473	1949
*St. James High School		Sister Thomas Miriam	8-4	18	61	1908
St. Joseph High School		Sister Agnes Clare	8-4	12	38	1941
St. Mary High School		Sister Mary Cajetan	8-4	9	25	1913
St. Stanislaus High School		Sister Mary Pontia	8-4	14	79	1952
Bear Lake High School	Maurice Goodreau	Louis E. Nault	6-6	6	16	1916
Beaverton Rural High School	Harold G. Broka	Clarence W. Metzger	8-4	15	63	1927
*Belding Central High School	Murl B. Connor	Orval G. Jagger	6-2-4	35	98	1897
*Belleville High School	Harold O. Wetherell	John P. Ford	6-1-5	91	228	1923
Bellevue Community H. S.	Fernand L. Goudreault	Wayne E. Shaffer	6-6	27	45	1907
Benton Harbor:						
*Benton Harbor Senior H. S.	Albert C. Johnsen	Calvin Cleveland	6-3-4	87	422	1894
St. John High School		Sister Marie Anthony	8-4	10	45	1929
Benzonia: Benzie County Central H. S.	Robert V. Lone	Clayton L. Cory	6-2-4	16	38	1916
Bergland Community H. S.	Edwin L. Carlson	Harold L. Hoffner	6-6	7	20	1920
*Berkley High School	Donald Roe	Loren A. Disbrow	6-3-3	85	467	1927
Berrien Springs:						
Berrien Springs H. S.	Lee F. Auble	Lester Diekenia	5-3-4	19	68	1913
*Emmanuel Missionary College Academy	G. E. Hutches	C. W. Mauro	8-4	19	29	1916
*Bessemer: A. D. Johnston H. S.	Walter Newman	John Sartoris	6-3-3	19	79	1902
Big Rapids:						
*Big Rapids High School	Richard C. Donley	Kenneth Swanson	6-6	36	132	1884
Ferris Institute H. S.	Victor F. Spathelf	Merrill R. Murray	8-4	16	11	1947
Birch Run Area High School	Harry Layman	Marshall Greene	8-4	16	71	1941
Birmingham:						
Detroit Country Day School		W. Rodman Snelling	6-6	16	13	1927
*Wylie E. Groves High School	Otis M. Dickey	C. E. Lundy	6-6	100	201	1962
Marian High School		Sister Mary Aquin	8-4	49		1963
*Ernest W. Seaholm H. S.	Otis M. Dickey	Ross A. Wagner	6-3-3	93	402	1894
Blanchard High School	Waino Pihl	Hugh Webster	8-4	19	24	1950
*Blissfield Community H. S.	Floyd Strayer	Jack Barger	6-2-4	25	109	1908
Bloomfield Hills:						
*Academy of the Sacred Heart		Mother K. S. Wansboro	8-4	12	20	1927
*Bloomfield Hills High School	Eugene Johnson	Richard J. Spiess	6-3-3	49	226	1936
Cranbrook School		Harry D. Hoey	6-6	107	78	1931
Kingswood School Cranbrook		Marion E. Goodale	6-6	38	57	1931
Bloomingtondale High School	David Eddington	Gerald E. Manville	6-6	13	31	1918
*Boyne City High School	T. H. Bray	J. H. Huggins	6-6	22	67	1907
Breckenridge Community H. S.	George T. Telgenhoff	Gerald Hanson	6-2-4	15	73	1926
Brethren: Norman-Dickson H. S.	James R. Barr	Doyle Eckhardt	6-6	9	23	1926
Bridgman High School	Robert Swartz	Kenneth Ward	6-2-4	18	50	1923
Brighton High School	H. Gordon Hawkins	Leo G. Fitzgerald	6-2-4	36	69	1928
Brimley: Superior H. S.	Burl E. Snorf	James I. Crisp	6-6	14	20	1937
Britton: Britton-Macon H. S.	William L. Saxton	William Hetrick	6-6	14	34	1936
Bronson Community H. S.	Gareth W. Heisler	William J. French	6-6	32	89	1909
Brooklyn High School	Arnold M. Haugen	Brent Beamish	7-5	15	55	1925
Brown City Community H. S.	Leonard D. Mills	James Egan	6-6	18	61	1911
*Buchanan High School	Pierre T. Bailey	Donald B. Trull	6-6	40	112	1892
Burr Oak High School	Glenn L. Secor		6-6	10	29	1935
Byron High School	Nick Ianni	Milton Lawson	6-6	13	36	1924
Byron Center High School	Ora A. Weeks	Harvey J. Lugten	6-2-4	22	54	1928
*Cadillac High School	W. L. Gelston	Robert D. Ash	7-2-3	31	166	1892
Caledonia High School	Ray E. Aley	Millard Engle	5-3-4	21	83	1923
*Calumet High School	Robert J. Hodges	R. Charles Stetter	8-4	34	154	1895
Camden: Camden-Frontier H. S.	Gareth H. Dominy	Lyle W. Harper	6-6	14	46	1953

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Capac Community High School	Charles F. Seeley	Robert C. Sloan	6-6	20	68	1931
Carleton: Airport Community H. S.	Joseph C. Sterling	Harvey T. Winckles	6-6	32	95	1926
Carney High School	Leno R. Pieropon	Patrick R. Moran	6-6	9	19	1961
*Caro Community High School	James C. Sutherland	Elton K. Gingrich	6-6	33	105	1903
*Carson City High School	Thomas J. Vaughan	W. Carl Holbrook	6-6	36	64	1914
Carsonville High School	Kelvin W. Chambers	Arthur Freely	6-6	17	23	1959
Caseville High School	Kenneth Wahl	Duane G. Hull	6-6	10	18	1961
Cass City High School	Willis Campbell	Arthur Holmberg	6-6	28	75	1907
*Cassopolis High School	Paul Wollam	Samuel Scarnato	6-6	31	65	1892
<i>Cedar Lake Academy</i>	B. G. Butherus	H. L. Jensen	8-4	20	58	1963
Cedar Springs High Schools	C. J. Tysse	John P. Coady	8-4	22	78	1907
Cedarville High School	Russell G. Wolff	Donald I. Denslow	6-6	9	23	1933
Cement City Rural Agricultural H. S.	Lauren C. Flick	Robert W. Cameron	6-6	12	33	1931
*Center Line High School	Clarence Crothers	Reginald Eldred	6-3-3	53	181	1929
Centreville High School	Robert L. Miller	Vernon J. Johnson	7-5	12	40	1917
Champion High School	Donald M. Utto	William G. Koski	6-6	9	15	1955
Channing High School	Eino K. Eckholm	Robert A. Kurth	8-4	7	16	1924
*Charlevoix High School	Roy G. Bennett	Harry E. Bingham	6-6	20	48	1902
*Charlotte High School	Clark Muma	John Brandt Smith	6-6	54	164	1890
*Cheboygan High School	Paul C. Lemm	J. R. McLeod	8-4	25	65	1904
*Chelsea High School	Charles S. Cameron	Charles H. Lane	8-4	29	74	1899
*Chesaning: Chesaning Union High School	Orra Morningstar	Cecil C. Ringle	8-4	25	108	1904
*Clare High School	Richard Wheeler	David Donovan	6-2-4	21	75	1903
*Clarkston High School	L. F. Greene	Milford Mason	5-3-4	43	140	1921
*Clawson High School	Eugene N. Spencer	John S. Volk	6-3-3	29	112	1924
Climax: Climax-Scotts H. S.	William Galbreath	Burton C. Hodges	6-2-4	10	38	1930
Clinton High School	Leon Bodell	J. Scott Hartman	6-6	21	44	1914
Clio Area High School	George R. Carter	Donald Woolson	6-2-4	37	141	1917
Coldwater:						
*Coldwater High School	Carlo W. Heikkinen	Kermit Dennis	6-2-4	43	137	1873
<i>St. Charles High School</i>		Sister Marie Leone	6-6	15	29	1953
Coleman High School	Clarence C. Mason	Melvin J. Budge	8-4	14	56	1928
Coloma High School	William Barrett	Victor Wier	6-6	30	75	1912
Colon Community High School	M. H. VanVoorhees	W. H. Judd	6-6	20	44	1913
Comstock High School	George Long	Louis Ruhs	6-2-4	31	67	1924
Comstock Park High School	Gordon Williams	Lyman E. McLouth	6-2-4	27	65	1927
Concord Community H. S.	David Blumenthal	William Ralston	6-6	21	38	1924
*Constantine High School	Burton R. Aldrich	Larry Geresy	6-6	25	53	1897
*Coopersville High School	Allen G. Robinson	Russell F. Conran	6-2-4	32	132	1911
Corunna High School	R. E. Dennis	Charles Alexander	6-6	32	94	1901
Covert High School	Clayton H. Symons	Davis J. Baer	6-6	17	24	1923
Croswell: Croswell-Lexington H. S.	Joseph E. Liddicoat	Jack D. Caldwell	6-2-4	25	115	1910
*Crystal Falls High School	K. W. Schulze	Wilbur H. Schenk	8-4	18	53	1902
Dansville Agricultural High School	Searl Briggs	G. E. Manning	6-6	17	53	1923
*Davison High School	Alvin N. Zachrich	A. Collins	8-4	39	139	1932
Dearborn:						
*Dearborn High School	Stuart Openlander	Robert W. Young	6-3-3	93	463	1917
<i>Divine Child High School</i>		Sister Mary Vincent	8-4	16	69	1962
*Edsel Ford High School	Stuart Openlander	A. J. Lawski	6-3-3	100	460	1956
*Fordson High School	Stuart Openlander	Dorman Ardis	6-3-3	99	570	1924
*Haston High School	Howard E. Parr	Virgil W. Hill	6-6	71		1963
*Harvey H. Lowrey High School	Stuart Openlander	John P. Romanow	6-3-3	61	244	1949
*Riverside High School	Hugo Perri	Thomas Raeside	6-6	46	93	1961
<i>Sacred Heart High School</i>		Sister M. Annunciata	8-4	16	89	1939
<i>St. Alphonsus High School</i>		Sister Marie Ruth	8-4	23	123	1926

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*Decatur High School	Wayne Hellenga	Noble Arent	6-2-4	17	51	1895
*Deckerville Community High School	Asa G. Fleck	George E. Leckrone	6-6	21	60	1915
Deerfield High School	Ray Moriarty	William Martella	6-6	12	22	1955
Delton: Delton Kellogg High School	Basil Johnson	Willard Baker	7-5	30	70	1937
DeTour High School	Cyril Mantei	Melvin Hall	6-6	10	25	1957
Detroit:						
<i>All Saints High School</i> 7830 W. Fort, Zone 9		Sister Mary Arthur	8-4	11	66	1923
<i>Annunciation High School</i> 1231 Parkview, Zone 14		Sister Francis Bernard	8-4	10	69	1919
<i>Austin Preparatory High School</i> 18300 E. Warren, Zone 24		Rev. J. F. Galloway	8-4	32	129	1956
<i>Benedictine High School</i> 8001 W. Outer Drive, Zone 35		Sister Mary Allan	8-4	25	120	1959
* <i>Cass Technical High School</i> 2421 Second, Zone 1	S. M. Brownell	Orvil F. Heft	6-3-3	181	941	1910
<i>Catholic Central High School</i> 6565 W. Outer Drive, Zone 35		Rev. Wilfrid M. Kehoe	8-4	39	195	1935
*Central High School 2425 Tuxedo, Zone 6	S. M. Brownell	Charles Lewis	8-4	113	498	1871
*Chadsey High School 5335 Martin, Zone 10	S. M. Brownell	Lisle K. MacKay	8-4	129	388	1934
*Cody High School 18445 Cathedral, Zone 28	S. M. Brownell	Ralph Lee	8-4	163	850	1955
*Commerce High School 2330 Grand River Ave., Zone 1	S. M. Brownell	Augusta W. Ochs	8-4	68	388	1925
*Cooley High School 15055 Hubbell Ave., Zone 27	S. M. Brownell	Ben S. Chinitz	8-4	118	726	1929
<i>De La Salle Collegiate High School</i> 11055 Glenfield Ave., Zone 13		Brother B. Richard	8-4	30	175	1929
*Denby High School 12800 Kelly Road, Zone 24	S. M. Brownell	Irvin G. Wolf	6-3-3	114	737	1931
* <i>Dominican High School</i> 9740 McKinney Ave., Zone 24		Sister Michael Denis	8-4	42	261	1941
*Eastern High School 770 E. Grand Blvd., Zone 19	S. M. Brownell	Robert Branton	6-3-3	104	568	1899
*Henry Ford High School 20000 Evergreen, Zone 19	S. M. Brownell	Bertha M. Robinson	6-3-3	80	425	1960
* <i>Girls' Catholic Central High School</i> 60 Parsons St., Zone 1		Sister Marilyn	8-4	14	66	1919
<i>Holy Redeemer High School</i> 5678 Eldred, Zone 9		Sister Ann Mary	8-4	28	189	1927
* <i>Immaculata High School</i> 16661 Greenlawn Ave., Zone 21		Sister M. Juliana	8-4	32	194	1942
<i>The Liggett School</i> 2555 Burns Ave., Zone 14		Katharine Ogden	8-4	25	25	1900
<i>Lutheran High School West</i> 8181 Greenfield, Zone 14	John Choitz	Alwin Wied	8-4	28	129	1948
*Mackenzie High School 9275 Wyoming Ave., Zone 4	S. M. Brownell	Florence Jacque	8-4	128	632	1932
*Mumford High School 17525 Wyoming Ave., Zone 21	S. M. Brownell	Helen J. Delbridge	8-4	150	810	1953
<i>Nativity of Our Lord High School</i> 5970 McClellan Ave., Zone 13		Sister M. Evangelist	8-4	17	69	1951
*Northeastern High School 4830 Grandy, Zone 7	S. M. Brownell	Wesley M. Rea	6-3-3	83	396	1918

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	Superintendent	Principal				
*Northern High School 9026 Woodward, Zone 2	S. M. Brownell	Donald A. Murray	8-4	88	385	1918
*Northwestern High School 6300 Grand River, Zone 8	S. M. Brownell	Arthur Diekoff	8-4	137	454	1915
*Osborn High School 11600 E. Seven Mile Road, Zone 5	S. M. Brownell	Harlan M. Holt	6-3-3	91	508	1960
*Our Lady of Mercy High School 18075 Southfield, Zone 19		Sister M. Victorine	8-4	40	188	1947
Patronage of St. Joseph H. S. 9625 Georgia St.		Sister Mary Arnold	8-4	9	36	1953
*Pershing High School 18875 Ryan Road, Zone 34	S. M. Brownell	Franklin E. Frey	6-3-3	116	725	1931
*Redford High School 21431 Grand River, Zone 19	S. M. Brownell	Carl R. Christy	6-3-3	124	831	1920
*Redford Union High School 18499 Beech Daly Rd.	Russel S. Hilbert	Ward M. Estes	6-3-3	84	314	1933
*Rosary High School 8551 Greenfield Rd., Zone 28		Sister Marie Henry	8-4	40	173	1960
Sacred Heart Seminary H.S. 2701 Chicago Blvd., Zone 6		Rev. Raymond J. Kuzava	8-4	31	71	1943
St. Agatha High School 19750 Beech Rd., Zone 40		Sister Grace Genevieve	8-4	13	38	1957
St. Agnes High School 15953 LaSalle Gardens, S., Zone 6		Sister M. Verita	8-4	8	25	1922
St. Ambrose High School 1200 Alter Road		Sister Mary Gilbert	8-4	19	81	1925
St. Andrew High School 5690 Cecil		Sister Mary Assumpta	8-4	14	114	1944
St. Anthony High School 5206 Field Ave., Zone 13		Sister Mary Fortunata	8-4	41	159	1928
St. Augustine High School 13476 Justine Ave., Zone 12		Sister Marie Eugene	8-4	9	37	1956
St. Bernard High School 3840 Fairview, Zone 14		Sister Mary Justin	8-4	9	43	1924
St. Casimir High School 3301 23rd Street, Zone 8		Sister Mary Euphemia	8-4	5	16	1931
St. Catherine High School 8021 Sylvester		Sister Mary Robert	8-4	10	40	1925
St. Cecilia H. S. 7001 Burlingame Ave., Zone 14		Sister M. Johnita	8-4	16	69	1930
St. Charles High School 1468 Townsend Ave., Zone 14		Sister Marie Leo	8-4	10	48	1926
St. Cyril High School 9047 St. Cyril Ave., Zone 13		Sister Mary Catherine	8-4	15	65	1953
St. David High School 8030 E. Outer Drive, Zone 13		Sister M. Lenore	8-4	16	65	1928
St. Elizabeth High School 4216 McDougall Ave., Zone 7		Sister M. Hilary	8-4	7	36	1949
St. Francis deSales High School 15379 Pinchurst Ave., Zone 38		Sister Mary Richard	8-4	13	77	1939
St. Gabriel High School 2350 Norman		Sister Mary Patrice	8-4	15	70	1955
St. Gregory High School 15055 Dexter, Zone 38		Sister Marmion	8-4	14	67	1932
St. Hedwig High School 5680 Konkel St., Zone 10		Sister M. Consolata	8-4	15	68	1943

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<i>St. Joseph High School</i> 1833 Jay St., Zone 7		Brother A. Matthew	8-4	17	69	1948
<i>St. Leo High School</i> 4835 Fourteenth St., Zone 8		Sister Martin Marie	8-4	13	29	1918
<i>St. Martin High School</i> 421 Drexel Ave., Zone 15		Sister Frances Loretta	8-4	13	46	1939
<i>St. Mary of Redford High School</i> 14751 Mansfield Ave., Zone 27		Sister Frances Ellen	8-4	32	163	1928
<i>St. Philip Neri High School</i> 2629 Lenox Ave., Zone 15		Sister M. Aloysia	8-4	13	55	1941
<i>St. Rita High School</i> 19710 Cameron		Sister Marie Alphonse	8-4	14	85	1942
<i>St. Rose High School</i> 11224 Kercheval, Zone 14		Sister Joseph Mary	8-4	17	31	1928
<i>St. Stanislaus High School</i> 2260 Medbury Ave., Zone 11		Sister Mary Ponciana	8-4	12	154	1932
<i>St. Theresa High School</i> 4317 Blaine Ave., Zone 4		Sister Thomas Mary	8-4	15	60	1923
<i>St. Vincent High School</i> 2018 Fourteenth St.		Sister M. Antonine	8-4	9	44	1917
<i>Salesian High School</i> 60 Harper Ave., Zone 2		Rev. Charles H. Herkert	8-4	24	106	1951
* <i>Seminary of the Felician Sisters</i> 2140 E. Canfield, Zone 7		Sister M. Ferdinand	8-4	9	29	1921
<i>Servite High School</i> 4875 Coplin Ave., Zone 15		Sister Mary Loyola	8-4	22	110	1955
* <i>Southeastern High School</i> 3030 Fairview, Zone 14	S. M. Brownell	Marjorie Readhead	8-4	107	426	1920
* <i>Southwestern High School</i> 6921 West Fort Street, Zone 9	S. M. Brownell	Walter L. Draper	7-5	83	228	1917
* <i>Thurston High School</i> 26255 Schoolcraft, Zone 39	Merlin D. Roe	M. Barrett Vorce	6-3-3	71	267	1957
* <i>University of Detroit High School</i> 8400 S. Cambridge Ave., Zone 21		Rev. R. J. McAuley	8-4	48	231	1915
<i>Visitation High School</i> 1945 Webb Ave., Zone 6		Sister Mary Cecile	8-4	26	116	1926
<i>Vista Maria High School</i> 20651 W. Warren Ave., Zone 23		Sister M. Benno	6-2-4	36	16	1962
* <i>Western High School</i> 1500 Scotten Ave., Zone 9	S. M. Brownell	Fred D. Leonhard	8-4	82	333	1895
<i>Wilbur Wright Cooperative H. S.</i> 4333 Twelfth St., Zone 8	S. M. Brownell	T. O. Quinlan	6-3-3	58	220	1949
* <i>Dexter High School</i>	Wayne L. Webb	Donald F. McIntyre	6-6	35	79	1938
* <i>Dollar Bay High School</i>	Wilfred O. Milde	Bruce B. Kettenbeil	6-6	7	24	1904
* <i>Dowagiac Union High School</i>	John E. Hicks	Homer Smull	6-3-3	31	125	1893
* <i>Drayton Plains:</i> Waterford-Kettering High School	James Den Herder	James S. Fry	8-4	64	194	1962
Dryden Community High School	Fred W. Patterson	Wendell Martin	6-6	12	41	1951
* <i>Dundee Community High School</i>	Harry B. Nelson	Wilbur W. Lewis	6-6	32	71	1910
Durand High School	Lyle Chenoweth	Forrest Rinehart	6-6	35	78	1908
* <i>East Detroit High School</i>	Charles A. Goetz	Charles M. Greig	6-3-3	94	410	1924
* <i>East Grand Rapids High School</i>	George Ruwitch	Russell Baker	6-2-4	56	173	1925
* <i>East Jordan High School</i>	Max Damoth	Keith Annear	6-6	18	44	1906
* <i>East Lansing High School</i>	C. E. MacDonald	Lee F. Kinney	6-2-4	57	209	1918
* <i>Eaton Rapids High School</i>	Alton Cowan	Richard Fransted	6-6	42	120	1890

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Eau Claire High School	John B. Vermilya	Robert Youngren	6-2-4	22	47	1918
Ecorse:						
*Ecorse High School	Ralph E. Brant	George I. Ruehle	6-6	79	106	1929
<i>St. Francis Xavier High School</i>		Sister M. Francis Clare	8-4	10	53	1941
Edmore Community High School	Morley G. Webb	John Noud	6-6	15	52	1923
Edwardsburg Consolidated Rural Agricultural High School	Daniel McConnell	Kenneth E. Dunnuck	6-2-4	73	70	1924
Elk Rapids: Cherryland H. S.	Robert E. Reilly	Thomas A. Sturm	6-6	17	39	1903
Elsie High School	Earl Seybert, Jr.	Ralph L. Stull	6-2-4	40	59	1927
Escanaba:						
*Escanaba Senior High School	Walter W. Bright	Stephen C. Baltic	6-3-3	36	171	1894
<i>Holy Name High School</i>		Rev. James Donnelly	8-4	26	125	1931
Essexville: <i>St. John High School</i>		Sr. M. Euphrasia	8-4	12	48	1931
*Ewart High School	S. J. Martin	William D. Smith	8-4	22	45	1906
Ewen High School	Floyd DelBello	Richard Rowley	6-6	12	32	1937
Fairgrove: Akron-Fairgrove H. S.	L. Dale Bush	James R. Ryan	6-2-4	17	60	1926
Fairview: Comins Township Agricultural High School	O. A. Hecksel	Donald P. Harrington	6-6	10	31	1938
Farmington:						
*Farmington Senior High School	G. V. Harrison	James A. Geiger	6-3-3	54	337	1920
<i>Our Lady of Sorrows High School</i>		Sister Martin Clare	8-4	16	78	1958
Farwell Area High School	H. K. McLaughlin	Harold Elenbaas	6-6	21	60	1929
Felch High School	Edwin M. Blomquist	Darrell L. Lindholm	6-6	8	19	1927
Fennville High School	Wayne Woodby	Samuel F. Morehead	8-4	19	56	1917
Fenton:						
*Fenton Area High School	William J. Early	William C. Walker	6-6	49	98	1876
Lake Fenton High School	Russell D. Haddon	Richard T. Higgins	6-6	24		1963
Ferndale:						
*Ferndale High School	John J. Houghton	John D. McGregor	6-2-4	105	430	1921
<i>St. James High School</i>		Sister M. Aurilla	8-4	14	89	1929
*Flat Rock High School	John M. Barnes	Mathew Mittlestat	6-3-3	24	87	1926
Flint:						
*Ainsworth High School	Frank Hartman	Herbert Palmer	6-3-3	46	241	1962
Atherton Community High School	H. W. Medler	G. Edmund Gardner	6-6	20	85	1957
Beecher High School	Theodore Buell	Walker Towns	8-4	49	187	1937
Bendle Senior High S.	K. E. Gempel	J. A. Hudnut	6-3-3	21	86	1931
*Bentley Senior High School	F. E. Barhitte	W. H. Young	6-2-4	25	71	1958
*Central Community High School	L. L. Jarvie	Philip H. Vercoe	6-3-3	92	587	1871
<i>Holy Redeemer High School</i>		Sister M. Raphaelita	8-4	20	61	1960
*Kearsley Community High School	George Daly	Edward J. Stephen	6-3-3	33	167	1940
*Northern Community High School	L. L. Jarvie	Guy V. Houston	6-3-3	78	528	1929
<i>Sacred Heart High School</i>		Sister M. Gertrude	8-4	8	31	1958
<i>St. Agnes High School</i>		Sister M. Michaeline	8-4	12	109	1956
<i>St. John Vianney High School</i>		Sister M. Carmeline	8-4	19	62	1956
<i>St. Matthew High School</i>		Sister M. Naomi	8-4	8	43	1927
<i>St. Michael High School</i>		Sister Marie Lillian	8-4	22	88	1921
*Southwestern Community H. S.	L. L. Jarvie	Hilmer Olson	6-3-3	82	477	1960
Flushing High School	Marion D. Crouse	John T. Bradley	6-2-4	33	157	1912
Fowler High School	Donald Smith	Nina Waldron	8-4	14	45	1960
Fowlerville High School	John S. Munn	John Brissaud	6-6	24	61	1909
*Frankenmuth High School	Richard Ziehmer	R. D. Wallen	8-4	21	78	1957
*Frankfort High School	Arthur L. Richter	James T. Watts	8-4	15	42	1911
*Fraser High School	Howard C. Richards	Stanley L. Schook, Jr.	6-1-5	41	101	1942
Freeland Community High School	Robert O. Young	Otto Bacon	6-6	22		1963
*Fremont High School	Maxwell Hamilton	Robert Eisner	6-6	46	145	1905

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Galesburg: Galesburg-Augusta H. S.	Charles G. Coggins	Wesley R. Burrell	6-2-4	18	58	1922
Gallen High School	E. J. Hungerford	Mark Philoff	6-2-4	14	33	1938
*Garden City High School	E. J. O'Leary	Gerald C. Gould	6-3-3	68	241	1952
Gaylord:						
Gaylord Community H. S.	Ivan S. Davis	Henry H. Smith	6-6	19	78	1905
St. Mary High School		Sister Mary Roch	8-4	5	22	1931
*Gladstone High School	Wallace C. Cameron	John C. Norton	6-6	24	75	1897
Gladwin Rural Agricultural H. S.	Robert G. Gravelle	Aaron L. Manwaring	6-6	27	133	1912
Glen Arbor: The Leelanau Schools	Charles W. Shinn		8-4	28	34	1933
Gobles High School	Maurice Mellor	Elmer J. Russell	6-6	14	34	1955
Goodrich Area High School	Miles W. Robinson	Roy Stacey	6-6	14	46	1922
Grand Blanc High School	James Burchyett	Hazel Dowd	6-6	65	167	1922
*Grand Haven Senior High School	Ralph Van Volkinburg	Glenn Olsen	6-3-3	57	303	1892
Grand Ledge:						
Grand Ledge Academy	B. G. Butherus	H. D. Lawson	8-4	19	34	1959
*Grand Ledge High School	Kenneth T. Beagle	Earl J. Lawrence	6-2-4	35	154	1907
Grand Rapids:						
*Catholic Central High School		Rev. J. Yager	8-4	68	469	1912
*Central High School	Benjamin J. Buikema	Romulus V. Romani	6-3-3	80	207	1873
*Creston High School	Benjamin J. Buikema	Russell L. Waters	6-3-3	68	361	1927
Forest Hills High School	Harold S. Chambers	Donald G. Crouse	6-2-4	34	121	1961
*Godwin Heights High School	Cornelius Bruggink	Maurice M. Gillender	6-2-4	41	139	1927
*Grand Rapids Christian H. S.		E. R. Post	8-4	50	348	1923
*Kelloggsville High School	Russell W. Formsma	Frank G. Hunnes	6-2-4	31	125	1941
Kentwood High School	Luther M. Barrett	Robert D. Hoffman	6-6	49		1963
*Lee High School	Lloyd C. Fry	Reuben L. Young	7-5	30	69	1926
*Marywood Academy		Sister M. Cyril	8-4	26	30	1906
*Mount Mercy Academy		Sister Mary Teresita	8-4	24	69	1920
*Ottawa Hills High School	Benjamin J. Buikema	Elmo Wierenga	6-3-3	51	265	1927
*Rogers High School	Albert L. Deal	John H. Pylman	6-2-4	38	84	1957
South Christian High School		Donald Lautenbach	6-3-3	18	93	1912
*South High School	Benjamin J. Buikema	Marjorie A. Shepard	6-3-3	85	213	1910
*Union High School	Benjamin J. Buikema	Emery T. Freeman	6-3-3	66	257	1912
*Wyoming High School	Albert L. Deal	Kenneth F. Davis	8-4	37	104	1938
*Grandville High School	Edwin L. Taylor	William J. DeWitt	6-2-4	45	149	1911
Grant High School	Roy T. Schroeder	Ray C. Rynberg	8-4	20	70	1918
Grass Lake High School	Wesley J. Smith	Leigh Brassaw	6-2-4	10	37	1909
Grayling High School	Joseph Stripe	Elmer Fenton	6-6	14	59	1910
*Greenville Senior High S.	A. F. Allinder	Howard Dalman	6-2-4	37	145	1888
*Grosse Ile High School	Robert B. Smith	Marshall E. Gingrich	6-2-4	40	89	1916
Grosse Pointe:						
Academy of the Sacred Heart		Mother A. Bayo	8-4	18	26	1931
*Grosse Pointe High School	Charles Wilson	Jerry J. Gerich	6-3-3	123	713	1924
Our Lady Star of the Sea		Sister M. Immaculee	8-4	16		1963
Grosse Pointe University School	John Chandler, Jr.	Wellington V. Grimes	6-6	32	46	1945
St. Paul High School		Sister M. DeLellis	8-4	17	86	1924
*Gwinn High School	William G. Garrett	Henry W. Sherry	6-6	49	62	1911
Hale Area High School	Samuel A. Gravitt	John J. Dooley, Jr.	6-6	17	32	1949
Hamtramck:						
*Hamtramck High School	D. T. Musselman	Henry Collins	6-2-4	52	225	1919
St. Florian High School		Sister Mary Annette	8-4	13	93	1944
St. Ladislaus High School		Sister M. Jerome	8-4	18	109	1938
*Hancock Central High School	Harold C. Lent	Harold Wirkku	6-6	28	112	1892
Hanover: Hanover-Horton H. S.	Harold J. Hintz	Everett L. Wilsher	6-6	14	42	1948

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Harbor Beach:						
*Harbor Beach Community H. S.	A. G. McDaniel	Robert Boston	8-4	22	54	1908
<i>Our Lady of Lake Huron H. S.</i>		Sister M. Rose Agatha	8-4	6	39	1949
Harbor Springs High School	L. J. VanHovan	William T. Baker	6-6	30	33	1941
Harper Woods:						
*Harper Woods High School	Joseph H. Gregory	Osborne H. Day	6-3-3	32	116	1953
<i>Lutheran High School East</i>	John F. Choitz	Herbert C. Moldenhauer	8-4	22	87	1959
<i>Notre Dame High School</i>		Rev. Omer St. Onge	8-4	38	185	1961
<i>Regina High School</i>		Sister Mary Godwin	8-4	37	189	1961
Harris: Bark River-Harris H. S.	Kenton E. Holm	Lloyd H. Bruce	8-4	8	23	1950
Harrison Community High School	Robert M. Larson	Keith Mayfield	6-6	19	55	1950
Hart High School	Eugene A. Randall	William J. Slaughter	6-6	23	63	1906
*Hartford High School	Peter Stielstra	Arvon M. Collins	6-2-4	20	59	1907
Hartland Consolidated High School	Arthur L. Stanfield	Arnold Loomis	6-6	18	47	1923
Haslett High School	F. J. Jappinga	V. M. Kerensky	5-3-4	23	62	1923
*Hastings High School	R. J. Guenther	D. R. Gill	8-4	46	154	1884
*Hazel Park High School	Wilfred D. Webb	John W. Dickey	6-2-4	68	329	1924
Hemlock High School	Edwin Kilbourn	Rolland Benford	8-4	14	53	1950
Hermansville High School	Leo Alperovitz	Donald M. Hill	6-6	7	15	1925
Hesperia Community High School	Gilbert Chilcote	William Middleton	6-6	14	42	1955
Hickory Corners:						
Kellogg Consolidated H. S.	Alfred Shrosbree	Laurence E. Olson	6-2-4	21	72	1930
Highland Park:						
*Highland Park Senior H. S.	Norman Weinheimer	Russell W. Curtin	6-3-3	79	332	1913
<i>St. Benedict High School</i>		Sister Mary Hugh	8-4	32	62	1924
Hillman Community High School	Joseph Colby	Herman Wolter	6-6	29	35	1926
*Hillsdale High School	William A. Poppink	Edwin C. Henry	5-3-4	32	131	1890
Holland:						
<i>Holland Christian High School</i>	Mark VanderArk	Raymond Holwerda	6-2-4	33	186	1924
*Holland High School	Walter W. Scott	Jay W. Formsma	6-3-3	53	255	1898
West Ottawa High School	Lloyd Van Raalte	Duane Hooker	6-3-3	44	112	1963
Holly:						
<i>Adelphian Academy</i>	G. E. Hutches	R. W. Pratt	8-4	24	70	1943
*Holly Area Senior High School	Ray W. Barber	George G. Garver	6-2-4	27	115	1892
Holt High School	Maurice Pernert	John Wellington	5-3-4	25	99	1926
Holton High School	Gordon Peckham	David Wood	7-5	13	33	1941
*Homer Community High School	Ralph Miller	Robert C. Rhinard	6-6	25	54	1908
Hopkins H. S.	Clayton Wilson	Leverne D. South	6-6	17	67	1916
*Houghton High School	Bernard F. Gaffney	John M. Maloney	6-6	24	71	1893
Houghton Lake High School	Donald P. Meyer	James H. Capitan	6-6	22	63	1930
Howard City Community High School	Herbert J. Peck	Loren G. Butler	6-2-4	19	45	1906
*Howell High School	W. Donald Bath	Robert E. Schiefer	8-4	41	171	1890
*Hudson Area High School	Joseph Zapytowski	Douglas J. Ferman	6-2-4	20	74	1893
Hudsonville:						
Hudsonville High School	Clarence Sikkema	Marvin J. Overway	6-2-4	26	112	1925
<i>Unity Christian High School</i>		Philip Elve	8-4	23	125	1956
Ida High School	Harry Firestone	Robert Shafer	6-6	25	57	1930
*Imlay City High School	Alvin Norlin	Richard Wheeler	7-5	25	62	1910
Indian River: Inland Lake H. S.	Robert Fredrikson	Gordon Van Wieren	6-6	21	24	1957
Inkster:						
*Cherry Hill High School	C. P. Titus	Allan Mathison	6-6	56	96	1962
*Inkster High School	Eino Michelson	Henry E. Fortson	6-2-4	40	150	1935
Robichaud H. S.	Roderick Smith	John F. Scott	6-2-4	55	153	1950
*Ionia High School	Robert B. Boyce	Joseph M. Harrison	8-4	35	162	1883
*Iron Mountain Senior High School	Bruce Guild	Thomas Quarncroft	6-2-4	33	91	1894
*Iron River High School	R. E. Jefferson	Harry M. Monson	8-4	30	89	1907

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Ironwood:						
<i>St. Ambrose High School</i>		Sister M. Carina	8-4	7	22	1913
*Luther L. Wright High School	R. Ernest Dear	James E. Sheridan	8-4	43	150	1894
*Ishpeming High School	William C. Peterson	John R. Kivisto	8-4	37	165	1892
Ithaca High School	M. J. Neveaux	Robert Hamel (Acting)	6-2-4	32	101	1891
Jackson:						
*East Jackson High School	John M. Shevrovich	Eugene K. Mathews	6-3-3	18	91	1929
*Jackson High School	Ralph McLeary	W. Earl Holman	6-3-3	99	601	1871
Northwest High School	Willard Kidder	Fred Heuer	6-6	40	83	1960
*St. Mary High School		Sister Vincent DePaul	8-4	17	88	1915
<i>St. John High School</i>		Sister Mary Frederick	8-4	22	97	1918
*Vandercook Lake High School	Burdette Andrews	William R. Creger	7-5	21	48	1931
Johannesburg Central High School	Douglas A. King	Harvey G. Miller	7-5	7	17	1951
Jonesville Community High School	Wayne N. Shoemaker	George E. Carrigan	6-6	24	62	1907
Kalamazoo:						
*Central High School	Richard N. Percy	Eugene S. Thomas	6-3-3	85	402	1872
<i>Kalamazoo Christian High School</i>		James J. Veltkamp	8-4	21	83	1951
*Loy Norrix High School	Richard N. Percy	Elwood B. Griffith	6-3-3	66	251	1961
<i>St. Augustine High School</i>		Sister Margaret Mary	8-4	21	87	1926
*University High School	Donald Weaver	Gerald Martin	6-2-4	29	83	1914
Kalkaska High School	Robert Hardy	James Wind	8-4	15	42	1908
Kent City High School	M. L. Cochran	Olin Walker	6-6	38	66	1916
Kinde: North Huron High School	James C. Pace	Roland Sandell	6-6	16	43	1959
*Kingsford High School	A. T. Allen	Albert Treado	6-2-4	31	97	1926
Kingsley Area High School	Joseph Bellinger	George Dannecker	6-6	9	24	1950
Kingston Community High School	Thomas H. Dale	Donald E. Spohn	6-6	15	38	1928
Laingsburg Community High School						
Lake City Area High School	Wallace Edlund	Raymond O. Nash	6-6	18	35	1918
*Lake Linden: Lake Linden-Hubbell H. S.	Richard L. Preston	Aaron C. Hall	6-6	17	41	1915
*Lake Odessa High School	George A. Graham	Robert S. McKindles	8-4	16	41	1892
*Lake Orion High School	William R. Eckstrom	Gerrit G. Klomp	6-6	22	106	1913
*Lakeview High School	A. A. Reed	James D. Hoag	6-2-4	37	146	1912
*L'Anse Twp. High School	James M. Kos	O. A. Kirk	6-6	29	88	1912
Lansing:	C. J. Sullivan	Paul K. Ward	6-6	26	73	1937
*Eastern High School	Forrest Averill	Don S. Wheeler	6-3-3	87	475	1929
*Everett High School	Forrest Averill	Benjamin R. Leyrer	6-3-3	79	412	1937
<i>Resurrection High School</i>		Sister Pauline Marie	8-4	20	105	1939
<i>St. Mary Cathedral High School</i>		Sister Marguerita	8-4	19	93	1914
*J. W. Sexton High School	Forrest Averill	Christian H. Roosenraad	6-3-3	78	426	1885
*Lapeer High School	Clyde K. Schickler	Charles N. Harrow	6-3-3	36	202	1892
Lawrence High School	Ernest J. Shaw	Clarence Lubbers	6-6	16	30	1912
*Lawton Community High School	Charles R. Gibson	Robert L. Arends	8-4	15	32	1912
Leland High School	E. H. Lawler		6-6	11	11	1940
LeRoy Community High School	Wayne D. Meeker	Alex S. Reisig	7-5	7	16	1928
Leslie High School	Charles Bode	Richard Garant	6-6	29	55	1909
Lincoln: Alcona Community H. S.	S. K. Erickson	Russell G. Conway	6-6	19	81	1923
*Lincoln Park High School	Everett T. Winslow	Arnold C. Gregory	8-4	110	509	1929
Linden Community High School	David E. Bant	John W. Sanders	6-6	16	61	1915
Litchfield High School	Robert R. Swartz	Charles Draper	6-2-4	11	39	1917
Livonia:						
*Bentley High School	Benton Yates	Donald Friedrichs	6-3-3	103	642	1950
*Clarenceville High School	Louis E. Schmidt	David B. McDowell	6-2-4	34	105	1945
<i>Ladywood High School</i>		Sister Mary Lilliose	8-4	16	80	1953

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*Lowell High School Ludington:	Stephen Nisbet	Carl Hagen	6-2-4	22	73	1903
*Ludington Senior High School St. Simon High School	O. J. DeJonge	Phil C. Hartman Sister Mary Rence	8-4 8-4	38 8	186 18	1890 1913
McBain Rural Agricultural H. S. Macon: Boysville of Michigan H. S. Madison Heights:	Peter J. VanderPol Brother Philip	Wilbur I. Taylor Brother Paulus	7-5 7-5	13 20	38 26	1920 1954
*Lamphere High School *Madison High School	Fred D. Thorin F. Foster Wilkinson	Jack T. Adams Fred C. Burgess	6-2-4 6-2-4	35 45	81 127	1959 1929
Mancelona High School Manchester High School	John M. Hilderley Robert R. Masten	William Neeland Chester C. Koceski	6-6 8-4	26 15	40 49	1907 1907
Manistee:						
*Manistee High School St. Joseph High School	Norbert E. Radtke	Robert N. Lippert Sister Mary Marcianne	7-5 8-4	33 9	122 17	1883 1948
*Manistiquette High School Manton High School	Carl Olson H. S. Shotwell	Marvin Frederickson R. P. Hoover	6-2-4 8-4	23 16	107 37	1907 1907
Maple City: Glen Lake Community H. S. Marine City:	Don E. Goodson	Harold E. Sweeny	8-6 8-6	16 17	37 34	1907 1959
Holy Cross High School *Marine City High School	Paul Appel	Sister Marie Helen Edward J. Trudell	8-4 6-2-4	11 25	49 77	1927 1892
Marion High School *Marlette High School	Henry Moes Adelbert Plummer	Maurice Allen Glenn E. Brookens	6-6 6-6	22 23	26 70	1959 1907
Marquette:						
Bishop Baraga Central H. S. Gravereet High School	H. J. Bothwell	Sister Mary Pelagia Paul M. Kotila	8-4 6-3-3	27 40	58 190	1931 1890
*Marshall High School Martin Rural Agricultural H. S.	Bruce A. Gray Robert Brandon	E. G. Rose Elwin Northrup	6-2-4 6-6	52 14	145 28	1888 1923
*Marysville Senior High School *Mason High School	N. A. Hanks James H. VanderVen	O. P. Bartow M. Chandler Nauts	6-3-3 6-3-3	25 25	160 109	1923 1893
Mass High School Mattawan Consolidated High School	John D. Wilson Robert M. Hamlin	Alma Laaninen James McCorry	6-6 6-6	9 20	18 50	1912 1935
Mayville Community High School Mecosta Consolidated High School	Gordon L. Ewing James K. Nelson	William W. Lamiman Edwin D. Holmquist	6-6 6-6	20 9	62 24	1920 1961
*Melvindale High School Memphis Community High School	Richard D. Evans Paul C. Shank	Robert C. Nunn Donald E. Kring	6-2½-3½ 7-5	54 28	226 46	1929 1960
Mendon High School *Menominee High School	Robert Meggison Alex M. Nelson	Arthur Ellinger James A. Murray	6-6 6-6	12 57	37 149	1908 1894
Merrill Community High School Mesick Consolidated High School	John Frechette Richard L. Nuss	Ira C. Aubuchon Frederick E. Brown	3-4-5 8-4	17 14	63 33	1942 1927
*Michigan Center High School Middleville: Thornapple-Kellogg H. S.	R. F. Keicher Earl C. VanSickle	Orville McLaury Stanley Kitch	6-2-4 6-6	24 23	94 66	1930 1924
*Midland Senior High School *Milan High School	Ernest Britton George Beale	William Wang Andrew McCulloch	6-3-3 6-3-3	97 26	548 112	1897 1904
*Millford High School Millington Community High School	Erwin Johnson Gordon Helmbold	Jack Minzey Edward Schell	6-2-4 6-6	47 23	146 75	1915 1912
Mio Agricultural High School Monroe:	Forrest N. Armock	Charles J. Baker	6-6	11	25	1928
Catholic Central High School *Monroe High School	Herman Dunseith	Brother Ambrose Delton Osborn	8-4 8-4	16 65	90 418	1952 1880
*St. Mary Academy Montague Senior High School	R. R. Oehrli	Sr. Ann Virginia E. G. Townsend	6-2-4 8-4	45 20	115 74	1889 1919
Montrose High School Morenci Area High School	Frank B. McCloy Henry Geisler	Alfred Gwillim Harold Hall	6-6 6-6	21 22	64 66	1927 1907
Morley: Morley-Stanwood High School Morrice Area High School	Walton Erickson Ford E. Longendyke	Donald R. Beaton E. Ernest Dear	8-4 6-6	10 12	61 23	1925 1923

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Mt. Clemens:						
*Clintondale High School	M. C. Hallman	D. R. Shader	6-2-4	38	65	1959
*L'Anse Creuse High School	Fred V. Pankow	Edward R. Smith	6-3-3	38	162	1959
*Mt. Clemens High School	William L. Berkhof	Harold E. Jones	8-4	72	288	1886
<i>St. Louis High School</i>		Sister Laura Mary	8-4	12	56	1955
<i>St. Mary High School</i>		Sister M. Francelia	8-4	13	53	1915
Mt. Morris:						
Mt. Morris High School	Clarence F. Scharer	Ronald W. Bigelow	6-3-3	24	113	1922
<i>St. Mary High School</i>		Sister Marie Gerald	8-4	10	42	1938
Mt. Pleasant:						
*Mt. Pleasant High School	Russell LeCronier	Durell Enling	6-3-3	42	224	1897
* <i>Sacred Heart Academy</i>		Sister Mary Agatha	8-4	13	42	1909
*Munising: William G. Mather H. S.	William T. MacNeil	W. Howard Berkel	6-6	30	93	1907
Muskegon:						
<i>Catholic Central High School</i>		Rev. Herman H. Zerfas	8-4	49	233	1954
*Muskegon High School	Richard B. Warren	Murel G. Burdick	8-4	102	598	1890
*Orchard View High School	M. E. MacPherson	Gerald Sielski	6-6	43		1963
*Reeths-Puffer High School	Dale E. Kaulitz	Donald F. Dechow	6-2-4	30	76	1959
<i>Western Michigan Christian H. S.</i>		Elmer J. Walcott	8-4	12	68	1950
*Muskegon Heights High School	Fred E. Strong	Herman Kruizenga	6-2½-3½	50	267	1922
Napoleon High School	Gordon Smith	Derek Morris	6-6	26	69	1959
Nashville: W. K. Kellogg High School	Carroll Wolff	Andrew Angwin	6-6	18	55	1897
National Mine High School	Walter T. Bath	Kenneth D. Lindberg	6-6	9	14	1920
*Nazareth: <i>Nazareth Academy</i>		Sister M. Philomena	8-4	19	25	1914
Negaunee:						
*Negaunee High School	A. B. Haist	R. K. Richards	6-6	38	106	1894
<i>St. Paul High School</i>		Sister Mary Peter	8-4	10	17	1938
Newaygo High School	LaVern Lesley	Donald Rathbun	6-2-4	13	32	1923
New Baltimore: Anchor Bay High School	William R. Nuse	James Rynearson	8-4	22	63	1937
*Newberry High School	J. L. DeCook	H. E. Kilpela	8-4	26	99	1907
New Boston: Huron High School	Thomas Krakker	William D. Miller	6-6	28	79	1955
*New Buffalo Area High School	Myron Reyher	Stan A. Sosnouski	6-6	27	42	1926
New Haven High School	E. F. Siefert	C. M. Uhazie	7-5	14	47	1924
New Lothrop:						
New Lothrop Area High School	Ray Kesler	Alfred J. Bowyer	6-6	10	21	1959
<i>St. Michael High School</i>		Sister M. DeLellis	8-4	6	28	1935
New Troy High School	L. B. Jannasch	Duane Ongstad	6-6	14	42	1924
Niles: Brandywine High School	Edward Ossmann	Norman Kreager	8-4	30		1963
*Niles Senior High School	Roscoe C. Miner	C. Lester Luce	6-3-3	57	333	1877
North Adams High School	Harold Trott	Donald Devenport	6-6	12	28	1923
North Branch Area High School	Richard Packard	Jack Vincent	6-6	29	61	1914
*North Muskegon High School	Vincent McGugan	William Bocks	6-6	37	128	1935
*Northville High School	Russell Amerman	Frederick Stefanski	6-2-4	36	152	1900
*Norway High School	Donald S. Brumbaugh	Irving H. Soderlund	6-6	17	59	1896
*Oak Park High School	James N. Pepper	Arthur Matthews	6-2-4	89	223	1957
*Okemos High School	George H. Richards	Dale Shearer	5-3-4	31	118	1923
Olivet Community High School	Arden E. Harper	Vordyn D. Nelson	6-6	21	51	1914
Onaway High School	Floyd Merritt	Donald E. Holmes	8-4	13	62	1911
Onekama Consolidated High School	V. Alton Warner	Clarence Mallison	8-4	10	27	1931
Onsted High School	Elwood Little	Dee Barsbney	6-6	53	71	1918
*Ontonagon High School	Victor F. Keefer	James E. Webber	6-6	22	40	1907
Orchard Lake:						
<i>St. Mary High School</i>		Rev. S. W. Piorkowski	8-4	20	30	1915

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*West Bloomfield High School	Leif A. Hougén	Rex B. Austin	6-6	35	77	1929
Ortonville: Brandon High School	Burl A. Glendenning	Jack Ferris	6-6	22	53	1918
Oscoda Area High School	Robert D. Richardson	Donald J. Wagner	6-6	46	94	1921
Otisville: Lake Ville Memorial H. S.	J. D. Schindler	Lawrence P. Meeker	8-4	16	82	1956
*Otsego Senior High School	John Prevost	Hugh S. Myers	8-4	27	106	1898
Ottawa Lake: Whiteford High School	Raymond C. Kahler	Owen V. McNulty	6-6	18	49	1962
Ovid High School	Sanford J. Nelson	Dale O. Packer	7-5	20	53	1900
Owendale: Owendale-Gagetown H. S. Owosso:	Charles L. Mayer	Charles J. Ellis	8-4	10	50	1926
*Owosso High School	Glen W. Haidt	Carl W. Blood	6-2-4	60	251	1883
St. Paul High School		Sister M. Leslie	8-4	16	53	1930
*Oxford Area Community High School	Roger Oberg	H. B. Johnson	6-2-4	23	82	1901
*Painesdale: Jeffers High School	Joseph G. Hampton	Walter Davis	8-4	13	46	1910
*Parchment High School	Fred W. H. Hall	H. Richard Johns	4-4-4	28	50	1961
Parma: Western High School	Hal Helmer	R. A. Jackson	8-4	22	87	1928
*Paw Paw High School	Donald L. Ihrman	Curtis Van Voorhees	6-6	34	98	1892
Peck High School	Jerome Thienes	Robert Liberty	6-6	14	52	1959
Pellston High School	Earl Weller	Edward Pagel	6-2-4	28	47	1910
Pentwater High School	Sherman Martin	Elmer Sanford	6-6	10	30	1910
Perrinton: Fulton High School	Henry T. Martin	Harold F. Barr	7-5	15	54	1940
Perry High School	J. F. McDevitt	James Potier	6-6	46	69	1922
Petersburg: Summerfield High School	Jack E. Meeder	Joseph Castle	6-6	20	38	1932
Petoskey:						
*Petoskey High School	Warren Luttmann	Oliver Aho	6-6	29	104	1893
St. Francis Xavier High School		Sister Marie Therese	8-4	15	40	1955
Pewamo: Pewamo-Westphalia Community High School	William Steinke	David Hanson	6-6	15	49	1962
Pickford High School	Webster D. Morrison	Robert Howell	6-6	9	29	1923
*Pigeon: Elkton-Pigeon-Bay Port H. S.	James A. Matteson	Orville H. Snider	8-4	26	102	1961
Pinckney High School	Wesley Reader	Germaine Stackable	8-4	19	58	1919
Pinconning:						
Pinconning Area High School	Per A. Wickstrom	Parnell Tardy	8-4	26	103	1924
St. Michael High School		Sister Mary Carmela	8-4	5	24	1934
Pittsford Rural Agricultural H. S.	Harvey Hauer	William Hewitt	6-6	15	44	1923
*Plainwell High School	K. Wayne Yaple	Granville B. Cutler	6-2-4	25	93	1895
*Plymouth High School	Russell Isbister	Carvel M. Bentley	6-3-3	57	304	1900
Pontiac:						
*Pontiac Central High School	Dana P. Whitmer	Francis W. Staley	6-3-3	92	431	1873
St. Frederick High School		Sister M. Melanie	8-4	12	49	1925
St. Michael High School		Sister M. Maura	8-4	10	52	1949
*Northern High School	Dana P. Whitmer	Philip J. Wargelin	6-3-3	54	256	1959
*Waterford Twp. High School	James Den Herder (Acting)	Paul O'Neill	6-2-4	70	267	1950
*Portage Township High School	Varl Wilkinson	Arland F. Martin	6-3-3	72	262	1949
Port Austin High School	Frank E. Dodge	Luther M. Lamb	6-6	7	16	1951
Port Huron:						
*Port Huron High School	Howard D. Crull	Colen Sommerville	5-3-4	125	524	1883
St. Stephen High School		Sister M. Coronata	8-4	11	96	1927
*Portland High School	William Griffiths	Paul S. Kruzel	6-2-4	20	63	1893
Pottsville High School	Louis J. Vincent	William C. Jenkins	6-6	13	29	1955
Powers: Powers-Spalding High School	Eber Coulson	E. S. Wiciecz	6-6	21	21	1947
*Quincy High School	Elwood Larsen	Ronald Reynolds	6-6	18	73	1916

Schools Listed by Post Office Address	Superintendent Administrators During 1962-1963	Principal	Type of Organization	Number of High School Teachers	Graduates 1962	Accreditation Date
Rapid River High School	Walter C. Peters	Norman W. Slough	6-6	11	25	1913
Ravenna High School	George E. Townsend	John C. Meyer	8-4	29	107	1944
Reading Community High School	Carl Shoppell	Kenneth Spurr	6-6	24	43	1950
*Reed City High School	G. T. Norman	E. C. Messner	7-5	23	83	1899
Reese High School	Bruce J. Dunn	Harold G. Bowden	6-6	17	50	1957
Remus Consolidated High School	Elliott Oldt	Robert Rhode	8-4	14	50	1931
Republic Central High School	W. J. McClintock	Jay A. Brady	6-6	14	21	1907
Richland High School	Alfred Shrosbree	Elmer R. Weaver	6-2-4	23	74	1922
Richmond:						
Richmond High School	Carl K. Krause	Charles R. Ritter	6-6	25	58	1910
<i>St. Augustine High School</i>		Sister M. Mercita	8-4	13	36	1963
River Rouge:						
<i>Our Lady of Lourdes High School</i>		Sister Miriam Therese	8-4	14	98	1919
*River Rouge High School	Glenn K. Bowen	Corde E. Horton	7-5	62	109	1909
*Rochester Senior High School	Donald C. Baldwin	Harlan Johnson	6-3-3	53	218	1911
Rock High School	George Weingartner	George Kulack	6-6	14	19	1925
*Rockford Senior High School	James F. Bale	Maurice G. Arnold	8-4	32	116	1912
*Rogers City High School	Harry G. Grambau	Herman Haneckow	8-4	26	73	1919
*Romeo High School	T. C. Filppula	David L. Olson	6-3-3	27	113	1898
*Romulus Senior High School	Robert McConeghy	Lloyd E. Peterman	6-3-3	35	200	1929
Roscommon: Gerrish-Higgins H. S.	E. L. Hulce	E. W. Johnson	6-6	19	47	1950
Rose City High School	Roger Carlson	Paul Southerland	6-6	17	36	1955
Roseville:						
*Roseville High School	Carl Brablec	Richard E. Drager	6-3-3	73	676	1924
<i>Sacred Heart High School</i>		Sister M. Davidica	8-4	26	94	1959
Royal Oak:						
*Dondero High School	Donald M. Currie	Walter K. Walborn	6-2-4	94	862	1912
*Kimball High School	Donald M. Currie	Charles L. Jackson	6-2-4	117	392	1958
<i>St. Mary High School</i>		Sister Bernardine Marie	8-4	18	70	1928
<i>Shrine of the Little Flower H. S.</i>		Sister Ellen Marie	8-4	28	239	1943
Rudyard Township High School	Harris Kahl	Ed. W. Jarvie	6-6	27	49	1926
Saginaw:						
*Arthur Hill High School	Charles C. Coulter	Harold W. Giesecke	6-3-3	91	621	1880
Buena Vista High School	Joseph G. Barr	Robert L. Blue	6-2-4	41	103	1962
<i>Holy Rosary High School</i>		Sister Mary Crispin	8-4	6	28	1959
*Saginaw High School	Charles C. Coulter	Ward E. Tibbet	6-3-3	86	550	1879
* <i>St. Andrew High School</i>		Sister Mary Consuelo	8-4	19	101	1923
<i>St. Joseph High School</i>		Sister Mary Conrad	8-4	12	18	1927
* <i>St. Mary Cathedral High School</i>		Sister M. Audrey	8-4	14	58	1928
* <i>St. Paul Seminary</i>		Rev. James A. Hickey	8-4	14		1963
<i>SS. Peter & Paul High School</i>		Sister M. Joannes	8-4	20	110	1913
St. Charles Community High School	Robert G. Hall	Lawrence McConnell	7-5	19	63	1949
*St. Clair High School	Paul H. Appel	Leslie F. Blossom	8-4	28	93	1890
St. Clair Shores:						
*Lake Shore High School	T. L. Alberts	Robert J. Burgoyne	6-2-4	61	182	1925
*Lakeview High School	James H. Rossman	Robert H. Schaublin	6-3-3	49	220	1931
<i>St. Gertrude High School</i>		Sister Mary Osmund	8-4	9	57	1961
*South Lake High School	John W. Lewis	A. A. Donik	6-2-4	54	177	1927
St. Ignace: LaSalle High School	Lee Richlen	O. L. Vecellio	6-6	29	48	1910
*St. Johns: Rodney B. Wilson H. S.	Earl R. Lancaster	B. Stanley Poucis	6-2-4	37	141	1892
St. Joseph:						
<i>St. Joseph Catholic High School</i>		Sister Ann Celeste	8-4	12	31	1933
*St. Joseph High School	Earl H. Place	Jack L. Larsen	6-3-3	47	206	1892
*St. Louis High School	Fred B. Wiegman	C. Levant Caszatt	6-2-4	31	93	1903
*Saline Area High School	Leo L. Jensen	Howard M. Hill	7-5	31	83	1909

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Sand Creek Community High School	Ross Cox	Ronald Lahman	6-6	20	84	1923
*Sandusky Community High School	Rex Milligan	Harold P. Sabin	6-6	27	104	1913
Saranac Community High School	Earl Cady	Donald Sharritts	6-6	18	39	1931
Saugatuck High School	Kenneth R. DePree	Thomas W. Swaffer	6-6	11	24	1917
Sault Ste. Marie:						
<i>Loretto Catholic Central H. S.</i>		Rev. Lawrence Gauthier	8-4	14	62	1943
*Sault Ste. Marie High School	Hugh H. Holloway	Harold W. Bruce	6-2-4	50	211	1894
Schoolcraft Community High School	R. Bruce Fiantdt	Roger B. Bullock	6-6	13	21	1910
Scottville: Mason County Central H. S.	A. O. Carlson	H. A. Barnard	5-3-4	19	82	1911
Sebewaing High School	Louis F. Balmes	Ruth E. Williams	8-4	17	65	1911
Shelby High School	Harry Edwardsen	James E. Thomas	5-3-4	20	59	1906
Shepherd High School	Paul Warmbrunn	Robert H. Bates	6-2-4	19	65	1935
*Southfield Senior High School	John W. English	Robert E. Hall	6-3-3	82	327	1954
Southgate:						
*Southgate High School	George N. McCormick	Karl S. Walker	6-3-3	34	1963	
*George G. Schafer High School	John Simonds	Norman G. Cobb	8-4	58	132	1960
*South Haven Senior High School	F. O. Norlin	Edwin F. Grunst	6-2-4	36	144	1900
South Lyon High School	Frank Bartlett	Gerald Hartman	5-3-4	23	81	1916
Sparta Area High School	W. H. DeHart	James Gardner	8-4	27	116	1910
Springport High School	William Rogers	James Gray	7-5	13	41	1923
*Stambaugh High School	Hart Puffer	E. H. Kukuk	8-4	26	66	1916
Standish: Standish-Sterling Central H. S.	R. L. Klingman	Wallace Schnetzler	6-2-4	22	83	1934
Stanton Union High School	Jack C. McConkey	O. E. Corner	8-4	15	56	1910
*Stephenson High School	Joseph B. Gucky	Edmer J. Lacasse	6-6	27	89	1916
*Stevensville: Lakeshore High School	George Ebeling	Stewart L. Olmstead	6-2-4	26	77	1924
Stockbridge Community High School	Jesse Batchelor	Richard Howlett	6-6	30	81	1925
*Sturgis High School	Warren J. Fudge	Robert M. Miller	5-3-4	40	171	1895
Swartz Creek Community High School	Eldon Buell	Robert H. Brown	6-6	46	93	1930
Tawas City: Tawas Area High School	Reynold E. Mick	Ernest W. Jordan	8-4	26	90	1915
*Taylor: Taylor Center High School	Orville Jones	Anthony Matulis	6-3-3	89	437	1957
*Tecumseh High School	James McDowell	Neville L. Hart	6-2-4	35	125	1894
Temperance: Bedford High School	Chas. A. Scheltema	Arthur W. Maschke	6-2-4	41	152	1926
*Three Oaks Township High School	Harold Sauser	Clare Collins	6-6	23	43	1908
*Three Rivers High School	Robert J. Davis	Edmund Blank	8-4	34	141	1893
Traverse City:						
*Traverse City Senior High School	William W. Novak	Robert E. Johnston	6-3-3	60	332	1889
<i>St. Francis High School</i>		Sister Mary Arlene	8-4	17	50	1930
*Trenton High School	Otto C. Hufziger	Neil E. Van Riper	6-2-4	79	263	1914
*Troy High School	Rex B. Smith	Roudaliph C. Smith	6-2-4	43	170	1941
Twining: Arenac Eastern High School	O. E. McCormick	Doris Rancourt	6-2-4	11	36	1949
Uby Community High School	Robert S. Duhan	Richard F. Lynch	8-4	19	67	1949
Union City Community High School	William A. Dyer	William L. Adams	6-2-4	17	57	1892
Unionville Community High School	D. A. Crawford	David G. Eldredge	6-6	25	28	1923
Utica:						
*Utica Community High School	Fred Atkinson	James Balten	6-3-3	65	290	1920
<i>St. Lawrence High School</i>		Sister Marie Edward	8-4	14	51	1961
*Vassar High School	Jack A. Smith	Loren Whitney	8-4	24	84	1899
Vestaburg Community High School	J. D. Scoby	Alger E. Demorest	6-6	13	31	1950
*Vicksburg Community High School	Kenneth J. Otis	Horace J. Allen	6-2-4	30	101	1904
Vulcan High School	Ernest E. Johnson	Edward Jasonowicz	6-6	9	25	1913

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*Wakefield High School	Carl E. Kleimola	Harry B. Sutter	6-6	22	53	1913
Waldron Area High School	Arlo F. Welling	Marvin C. Patrick	6-6	11	40	1957
*Walled Lake Senior High School	Clifford H. Smart	Evard V. Ayres	6-3-3	58	346	1923
Warren:						
*Fitzgerald High School	Earl S. Eidt	Kenneth K. Kistner	6-6	101	196	1951
*Lincoln Senior High School	Max Thompson	Willard Fensch	6-3-3	61	272	1927
*Warren High School	Paul K. Cousino	Albert Bever	6-3-3	56	234	1941
*Watervliet High School	Richard L. Rogers	Duane M. Formsma	8-4	19	56	1922
Wayland: Wayland Union High School	R. J. Steeby	Carl T. Bergstrom	8-4	20	70	1919
Wayne:						
St. Mary High School		Sister M. Deotilla	8-4	15	65	1953
*Wayne Memorial High School	P. D. Graham	Raymond H. LaFrey	6-3-3	94	454	1898
Webberville Community High School	Wren Chadderdon	D. Louis Christensen	6-6	15	37	1922
West Branch High School	Chester Surline	Hollis Miner	6-6	42	82	1909
White Cloud High School	Jack D. Jones	Arthur E. Wunsch	6-2-4	16	38	1924
Whitehall High School	Melvin B. Lubbers	Lester W. Fahner	6-2-4	25	89	1915
White Pigeon High School	Jim McKenzie	Wayne Dury	6-6	22	37	1915
White Pine High School	Elmer Rautio	Edward Helakoski	6-6	12	14	1962
Whittemore: Whittemore-Prescott H. S.	John H. Halbert	Sylvester Wojcicki	6-6	14	57	1928
Williamston High School	W. G. Bockstahler	Burnett E. Vanck	5-3-4	21	63	1900
*Willow Run High School	Robert J. Stevenson	Lauritz A. Drevdahl	6-2-4	39	105	1956
Wyandotte:						
Our Lady of Mt. Carmel H. S.		Sister Mary Edigna	8-4	16	69	1933
*Riverview Community High School	W. L. Hetzman	E. H. Simmons	8-4	35	91	1930
*Theodore Roosevelt High School	P. J. Jenema	C. J. Whitney	6-3-3	80	509	1895
St. Patrick High School		Sister M. Jane Patricia	8-4	12	90	1919
Yale High School	Charles Goulding	John V. Wark	6-2-4	19	114	1902
Ypsilanti:						
*Lincoln High School	Vernon Jones	Gene E. Megiveron	6-2-4	24	90	1925
*Roosevelt High School		Scott W. Street	6-6	23	57	1914
*Ypsilanti High School	Paul H. Emerich	Norris G. Wiltse	6-3-3	56	237	1873
*Zeeland High School	Julius F. Schipper	Laverne Lampen	6-2-4	38	180	1909





V. 65
#28

ADVANCED LEGAL STUDIES
FOR FOREIGN STUDENTS

THE UNIVERSITY OF MICHIGAN LAW SCHOOL

UNIVERSITY OF MICHIGAN OFFICIAL PUBLICATION

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WHAT DOES THE UNIVERSITY OF MICHIGAN LAW SCHOOL PURPORT TO DO FOR ITS AMERICAN STUDENTS?

No American is admissible to The University of Michigan Law School unless he has received, with relatively high standing, the degree Bachelor of Arts or its equivalent. Almost all persons admitted to a law school desire to prepare for the practice of law. Few are interested in law purely as a matter of general education. Law-related cultural subjects are usually to be found in departments of political science, history, and economics in the College of Literature, Science and the Arts or in the School of Business Administration. The student presenting a Bachelor of Arts degree usually has already sampled widely of these courses. Upon graduation from the Law School, the student wishing to practice law takes a state examination and is admitted to the practice of law, at least in most states, without any period of state or private apprenticeship being required. Thus the American law school must give its students a foundation in legal theory and philosophy, while at the same time alerting them to the practical problems which the lawyer faces. The study of law in the United States has much more relation to the law in application than does the study of law in most other educational systems.

Graduate law programs, at The University of Michigan Law School and elsewhere, are chiefly useful either to persons who want to teach law or who are already teaching law and who want to engage in concentrated research on a chosen topic and to pursue course work in the more philosophical branches of law study, or to persons who intend to practice law but desire additional courses in areas in which they expect to practice. The former type of student usually seeks the S.J.D. degree; the latter seeks the LL.M. only.

HOW CAN I TELL WHETHER OR NOT A PERIOD OF STUDY OR RESEARCH AT THE UNIVERSITY OF MICHIGAN LAW SCHOOL WILL BE USEFUL TO ME?

The person most likely to profit from advanced study at the Law School is the law teacher. The opportunities to learn the foundations of another system, to carry on research in the large domestic and foreign library collections, and to meet scholars from other lands, are sure to enhance his future service to education in his own country.

Next in ability to derive advantage from American law study is the lawyer employed or to be employed by government. He may be a judge, a prosecutor or procurator, or an official handling legal matters for such organs of government as the ministry of foreign affairs or the ministry of the interior. Almost always he is in a position where policy decisions are prepared or formulated, and usually he is in a position where knowledge of United States law is useful for background information.

The lawyer in private practice may be able to utilize a period of study in the United States if his practice brings him into fields of international law or

international trade; a purely domestic practice is not likely to be furthered by foreign study, although if there is an inclination toward law teaching or government service the interest in foreign study may be legitimate.

The person who does not intend to teach or practice law should probably not consider coming to an American law school, but rather should seek admission to a university graduate school, pursuing graduate work in economics, political science, or business administration. Arrangements can usually be made for concurrent enrollment in specific law school courses in which the student is interested.

In every instance the person contemplating study in the United States should be sure that his superior—dean, faculty, or present or prospective employer or supervisor—is sympathetic to the idea of foreign study. Some persons have come to the United States without such approval, and subsequently have been penalized in promotion, pay, and placement.

A student from abroad ordinarily should not contemplate taking the regular undergraduate American law program leading to the LL.B. degree, but rather should enroll either as a graduate or as a special student. Since many courses required of LL.B. candidates are designed for the potential practicing lawyer in the United States, they are of little value to the foreign student, and there is normally little to be gained in qualifying for that degree. The undergraduate program for a foreign student, moreover, would require approximately four years, which makes it impractical in the usual case. If he wishes to qualify to practice law in the United States, however, it is the LL.B. curriculum which he must pursue. United States citizenship is universally a condition of admission to the practice of law before state and federal courts.

Women are judged by the same standards as men and are admissible according to standards of professional qualification presented for consideration.

IF I ENROLL AT MICHIGAN,

WHAT SORT OF PROGRAM WILL I PURSUE?

A mature scholar may be permitted to pursue research in his field of major interest without formal requirements in the way of course work. He may consult with his counterpart faculty members as circumstances indicate. No teaching is required, though in an appropriate instance a joint seminar might be offered with a Michigan faculty member. If it seems desirable for the visiting scholar to attend classes, he may do so without formal registration by arrangement with the professor teaching the course.

Usually, however, the student will enroll as a graduate or special student. As such, he will elect two courses, one entitled A Survey of American Law and the other A Survey of Constitutional Law; he may take a few additional courses in his field of special interest. During his second and later semesters he will elect additional courses in his area of specialty, and will usually begin independent research in a comparative law area in which he has interest. The results of the research may be submitted in writing to the faculty member under whom the research is being carried on and a formal mark awarded which may be counted



*The reading room in
the Legal Research Building*



*The University offers many
special lectures and institutes in
Rackham Lecture Hall*

toward applicable degree requirements. There is no requirement that the results be published, but there is no objection to publication either in English or another language.

Course and seminar elections may be made from any of over one hundred Law School offerings for which the student is qualified. Common areas of concentration include constitutional law, administrative law, antitrust law, law for corporations, law of commercial instruments and obligations, labor law, international law, international organizations, law of foreign trade and investment, general comparative law, civil procedure and evidence, criminal law and procedure, air law, admiralty, atomic energy law, legislation, and conflict of laws.

CAN I OR SHOULD I WORK TOWARD A DEGREE?

We discourage all foreign graduates from working toward the LL.B. degree; we do not encourage anyone to work for a graduate degree. In general, we believe that a period of study in the United States will be most profitable if it is devoted to acquiring a good general understanding of the common law plus a thorough study of those aspects of the Anglo-American law in which the student has a particular interest. This can best be accomplished if the program is not complicated by formal degree requirements.

There may be, however, special reasons justifying enrollment in a degree program. The student is originally admitted as a graduate student. If the work done by the student is of high quality, he may subsequently be admitted to candidacy for an advanced degree. In most cases, he will be admitted only as a candidate for the degree Master of Comparative Law (M.C.L.). The requirements for this degree are (1) two full semesters in residence, and (2) the completion with a superior scholarship record of at least twenty semester hours of work as prescribed by the law faculty. Part of the prescribed work will be the preparation of a research paper on some phase of comparative law.

Two other advanced degrees are given: the Master of Laws (LL.M.) and the Doctor of the Science of Law (S.J.D.). The Master of Laws is open only to those who have received their basic law training in a common law country. Even in such cases additional residence requirements may be required in the discretion of the Graduate Committee. A minimum of 24 semester hours of coursework or research, completed with superior scholarship, are required for the LL.M. degree.

Students from foreign countries ordinarily will not be admitted to candidacy for the S.J.D. degree. Express approval by the Graduate Committee of the Law School is required, and is given only in rare cases, after the completion of one full year of residence, where the student has shown outstanding capacity for legal research and writing. The S.J.D. candidate must normally elect courses in jurisprudence and comparative law and must achieve a wide understanding of the common law system. The major requirement is the preparation and publication of a doctoral thesis. The subject for the thesis, the outline of the work to be done, and the completed thesis must all be approved by a faculty committee.

A student admitted to candidacy for the S.J.D. degree should expect to spend at least two years in residence and will probably require three years in residence to complete the task. The thesis may be submitted at any time within the five years next succeeding the period of residence. The degree is awarded only after acceptance and publication of the thesis.

Anyone completing courses or research projects with passing credit (C, 2.0 on a 4.0 scale) is awarded a suitably engraved certificate of attendance certifying the nature and extent of work satisfactorily done.

WILL I FIND THE SAME METHODS OF INSTRUCTION AS THOSE TO WHICH I AM ACCUSTOMED?

Law Schools in the United States, including the University of Michigan Law School, do not use the lecture system, but rather use modified forms of the case system, a Socratic method of instruction developed in this country. From cases, statutes, and other significant materials the student is expected to extract principles which are then tested by application to various actual and hypothetical fact situations. A considerable amount of preparation is necessary both before and after class hours, and the student must in effect compile his own text from his notes following the class periods. Consequently, it will not be possible for the student from abroad to elect as many courses as he could in his own law school.

Courses are weighted according to semester hours. A semester hour indicates one hour spent in class each week of the 16-week semester. There are three semesters each academic year, beginning in September, January and June. For the time being, the summer semester is in the form of a special summer session running from mid-May through the middle of August during which additional credits may be earned.

Attendance requirements are much more strict than in most systems of legal education in other countries. Every student is expected to attend regularly the courses in which he is enrolled. Indeed, the case method of legal study is effective only when attendance in class is regular.

Examinations are of the problem type, in which the student is given a hypothetical situation which he must analyze to determine legal problems and which he must then solve according to the legal principles with which he has been working. Questions requiring simple restatement of information will not be asked.

We, of course, recognize language difficulties to the extent that we limit first-semester course elections and permit a longer period of time in which to write the final examination. One must have extremely well developed English language ability, however, to be able to participate in an American law school graduate program.

IN WHAT SORT OF SURROUNDINGS WILL I BE WORKING?

The Law School occupies the beautiful W. W. Cook Quadrangle, a gift to legal education by the late William W. Cook, Esq., of the New York bar, a

graduate of the College of Literature, Science, and the Arts with the Class of 1880 and of the Law School with the Class of 1882. The Quadrangle is situated on a ten-acre tract immediately south of the central University campus. It includes several units constructed at different times. The first of these, the Lawyers Club, was completed in 1924, and the last, Hutchins Hall, was occupied in 1933. The Lawyers Club contains residence accommodations for 353 men students. Meals are served in a spacious dining hall; and other facilities are afforded in a large lounge, a small writing room, and a recreation room. The Quadrangle does not include quarters for family units.

The largest and most impressive unit in the Quadrangle is the Legal Research Building. This contains a reading room accommodating about 500 students, together with study rooms for research work and carrels in the stacks for graduate students and other advanced specialists.

The last unit to be completed, Hutchins Hall, contains the lecture and seminar rooms, the administrative and professional offices, a practice courtroom, a large study hall for students, and a small branch library for special work by faculty, law review editors, and graduate students.

WILL I HAVE ALL THE MATERIALS I NEED FOR STUDY AND RESEARCH?

Materials for law courses are found in published casebooks which may be purchased in local bookstores. One should anticipate the expenditure of approximately \$50 a semester for books.



Interior of Hutchins Hall

The University of Michigan Law Library has one of the largest collections of legal materials in the United States. It is complete in every phase of American law, including all cases, appellate briefs, statutes, pre-enactment materials, administrative reports and bulletins, periodicals, treatises, monographs, and texts. All materials necessary for work in international law are included in the 325,000 volume collection. We maintain extensive collections of foreign law for various countries in Europe, the British Commonwealth of Nations, Central and South America, and Japan, composed of statutes, reports, treatises, and legal periodicals, and at least a working collection for most other countries in the world. Sizable collections of Roman law, ecclesiastical law, military law, criminology, and legal biography are available. In addition there are many other university and departmental libraries containing cognate materials to which all persons registered in the Law School have access.

Every visiting scholar or foreign graduate student who has extensive and continuing need for legal materials in the law library collection may be assigned office or carrel space in the library stacks, from which he has immediate access to every volume in the collection and to which he may charge the books which he needs.

CAN I FURTHER MY LEGAL EDUCATION IN WAYS OTHER THAN CLASSWORK OR RESEARCH?

The Law School stands ready to assist the student from abroad in making contacts with American lawyers, judges, government officials, and businessmen. In the course of a year the student from abroad may expect the opportunity to visit federal and state courts, a state legislature, a state governor's office, administrative agencies, bar association offices, prisons, and law offices. Sometimes individual visits are arranged; at other times groups from the Law School are formed and transported to the scene of the visit.

The Law School presents the Thomas M. Cooley lectures which are devoted to scholarly discussions of timely professional topics. It is prescribed that the lecturers shall be mature and outstanding legal scholars, thus ensuring valuable contributions to legal science; representative topics have included:

"Frontiers of Constitutional Liberty," by Professor Paul G. Kauper, of the University of Michigan Law School;

"The Use of International Law—A Re-examination," by Professor Philip C. Jessup, of Columbia University;

"Towards Administrative Justice," by Professor H. W. R. Wade, of St. Johns College, Oxford University; and

"Criminal Law Reform in England," by Professor D. Seaborne Davies, Dean of the Faculty of Law, University of Liverpool.

During the spring semester a person noted in American life delivers the William W. Cook Lectures on American Institutions; representative lectures have been:

"Characteristically American," by Ralph Barton Perry, Professor Emeritus, Department of Philosophy, Harvard University;

"Planning for Freedom: The Government of the American Economy," by Eugene V. Rostow, Dean of Yale Law School; and

"The American Economic Republic," by Adolf A. Berle, Professor of Law, Columbia University.

Some of the functions scheduled by the Institute of Continuing Legal Education, a joint program of The University of Michigan and Wayne State University Law Schools, are held in Ann Arbor. The Lawyers Club invites a number of special speakers throughout the year, whom all students are welcome and encouraged to hear. Special convocations in cognate areas such as business administration, sociology, economics, and political science are also open to all law students.

WHERE WILL I LIVE IF I COME TO ANN ARBOR?

We are able to provide rooms for some foreign students at the Lawyers Club, which forms part of the W. W. Cook Law Quadrangle. Since most of our single undergraduate law students live in the Lawyers Club, residence there presents an unparalleled opportunity to develop friendships and to engage in informal legal and cultural discussions. All meals are served in the dining hall of the Club. Application cards may be obtained after admittance to graduate study has been granted.

Some students, because of their age, or for dietary or other personal reasons, prefer to find quarters in one of the many rooming houses surrounding the campus. For assistance in obtaining such a room, correspondence should be directed to The International Center, 603 E. Madison, Ann Arbor, Michigan.

The Law School itself has no living facilities for women students. For information on housing for women, write the Office of the Dean of Women, The University of Michigan, Ann Arbor, Michigan.

If no space is available in the Lawyers Club, it is imperative that the student plan to arrive in Ann Arbor before the beginning of orientation week in order to arrange for housing. There are approximately 25,000 students in Ann Arbor, the population of which is only 60,000; the demand for private housing is tremendous, and the better accommodations are quickly taken by the diligent.

SHOULD I PLAN TO BRING MY HUSBAND OR WIFE?

We do not encourage any graduate student to bring spouse or family. A major reason is expense, since family housing is much more difficult to obtain and expensive to rent than single living quarters, and food expenses increase correspondingly. The additional travel expense must be taken care of by the student himself.

There is also less opportunity to get acquainted with Americans if the spouse accompanies the student, since apartment dwellers tend to live by themselves much more than students living in the Lawyers Club or in rooming houses. There is also correspondingly less time available for professional activities at the Law School.

The Legal Research Building of the Law Quadrangle



Some University apartment housing is available at the Northwood Apartments on a first come, first served basis. After admittance to the Law School has been granted, application for housing should be made to Supervisor, University Apartments, 2364 Bishop Street, North Campus, Ann Arbor, Michigan. Some assistance in finding private apartments may be obtained at the International Center.

HOW MUCH WILL IT COST ME TO LIVE IN ANN ARBOR AND ATTEND LAW SCHOOL?

Tuition and fees in the Law School are \$550 each semester and are subject to change without notice. Books cost approximately \$50 per semester. Living costs vary here as well as in the student's home country, but one should plan to have a minimum of \$180 a month for room, board, laundry, and incidental expenses. Semester fees include University Health Service privileges, which reduce expenses for medical care and treatment so far as the student himself is concerned. Foreign students who are not provided with health-hospitalization insurance by their sponsors are required to purchase Student Accident and Health Insurance. The cost of this coverage (approximately \$25) *must* be paid at time of registration. This coverage extends for a full twelve months. Information is available at the International Center. The minimum which a married couple should plan to have each month is \$300. Travel costs to and from the United States can be determined by consulting travel agencies or bureaus in your own country. One-way rail coach class fare from New York to Ann Arbor is approximately \$35; from San Francisco to Ann Arbor approximately \$90. Any other travel within the United States must be added to basic expenditures.

Ann Arbor weather includes extremes of heat and cold. Warm winter clothing should either be brought or purchased in Ann Arbor. Informal dress is permissible in the classroom.

WILL ANYONE BE AVAILABLE TO HELP ME ADJUST TO LIFE IN ANN ARBOR?

The Adviser to Foreign Law Students in the Law School, and those with whom he works, are always available to counsel the student about professional and personal problems. Field trips of a professional nature are arranged by the Law School.

For general adjustment problems one may obtain the help of the University International Center, a campus service institution designed to help all students from abroad. Services include meeting incoming students at railroad, bus, or airplane terminal; assistance in finding housing; processing of immigration matters; and arranging visits to industrial plants, points of cultural and scenic interest, and to private homes. Teas, dances, and meetings are held weekly at the Center attended by American and foreign students. Members of the faculty visit informally with students from abroad. Contact with others from the stu-

dent's own country is facilitated. The Center, in short, is concerned with making students from abroad feel completely at home in Ann Arbor and in the United States.

HOW MUCH ABILITY TO SPEAK, READ, WRITE OR UNDERSTAND ENGLISH IS REQUIRED?

Since English is the language of instruction at The University of Michigan, foreign students have to compete with native speakers of English in their classes. Foreign students whose native language is not English will need to know in advance whether or not their command of English is adequate for the program they wish to pursue. To make it possible for the student and the Law School to plan properly, the University requires all foreign students whose native language is not English to take an English proficiency examination during the process of admittance. These tests are prepared and regularly administered abroad by the English Language Institute of the University. Information concerning the place and time for the test will be sent to the candidate by the English Language Institute. The charge for this examination is ten dollars.

A second English proficiency examination parallel to the first will be taken after arrival in Ann Arbor by all foreign students whose native language is not English. The English Language Institute administers this examination also. There is no charge for this second examination.

On the basis of these tests the University will advise the student whether his command of English is adequate for his program. Students whose command of English is not considered adequate by the University will be advised to study more English and be tested again abroad before admittance, or they may have to take an intensive course in English at the English Language Institute in Ann Arbor before beginning their academic work in the University. In certain instances remedial English in the English Department of the College of Literature, Science, and the Arts of the University will suffice.



Some of the volumes published in the Michigan legal publications series



*Complete facilities for classrooms, study and research
are available in the Law Quadrangle*

ARE THERE ANY CULTURAL OPPORTUNITIES AVAILABLE IN ANN ARBOR?

Each year dozens of distinguished musicians, artists, actors, and lecturers come to Ann Arbor. The University Musical Society presents annual subscription concerts, bringing the greatest musical artists of the world to Hill Auditorium; a typical year's program includes, among others, the Toronto, Boston, and Cleveland Symphony Orchestras, Artur Rubenstein, the Virtuosi Di Roma, Nathan Milstein, Myra Hess, Risé Stevens, and Zinka Milanov. The annual May Festival brings an additional array of guest artists to appear with the Philadelphia Orchestra under Eugene Ormandy. The University Music School presents over a hundred free concerts and recitals by students and faculty, including performances by Robert Noehren, University organist, Percival Price, University carillonneur, and the Stanley Quartet, the University quartet-in-residence. The University Speech Department presents several plays a year, together with three operas in conjunction with the School of Music. Each May and June a drama festival is held during which leading Broadway actors and actresses appear at Lydia Mendelssohn Theater in classical and modern plays.

The University Art Museum, housed in Alumni Memorial Hall on campus, contains a small but distinguished collection of traditional and modern art, and hosts each year a number of traveling exhibitions from major museums in the United States.

The University participates in all major and minor intercollegiate sports, including football, basketball, baseball, hockey, swimming, and track. Students are admitted to all home sports events without charge or at minimum rates.

WHAT DO I HAVE TO DO TO BE ADMITTED TO GRADUATE LAW STUDY AT THE UNIVERSITY OF MICHIGAN LAW SCHOOL?

One should correspond with the Adviser to Foreign Law Students, University of Michigan Law School, Ann Arbor, Michigan, who will supply an application blank to those who appear qualified to apply. The application form should be completely filled out in English in ink or typewriting and returned to the Adviser to Foreign Law Students accompanied by certified official transcripts of college and law school credits, and a certificate of admission to the practice of law, if any. A person engaged in law teaching or government service should supply a certificate from his dean or superior indicating the position held by the applicant. Each applicant must procure three letters of recommendation from persons who know him in a teaching or professional capacity; each letter must be sent directly by the writer to the Adviser of Foreign Law Students. The applicant must take the Robert Lado English Proficiency Test, as indicated above. Information about the test can be secured from the Adviser to Foreign Law Students at the Law School.

The completed application should be in the hands of the Adviser to Foreign Law Students not later than January 1 of the year in which matriculation is to begin if financial assistance is being sought from the Law School, or not later than May 1 if admittance only is being requested, unless special arrangements are made for some other date.

If the credentials submitted indicate completion of law work with a superior record indicating likelihood of successful law study in the United States, a certificate of admittance to the Law School will be issued. It should be understood, however, that admittance to graduate study of law is granted only after a careful scrutiny of all documents submitted and not as a matter of course.

CAN I SECURE FINANCIAL ASSISTANCE TO FACILITATE MY STUDY AT THE UNIVERSITY OF MICHIGAN LAW SCHOOL?

The Law School has each year a number of general fellowships made available through the generosity of the Ford Foundation and the W. W. Cook Endowment Fund. It also has certain fellowships for Filipino students only, made possible through the bequest of the late Clyde H. DeWitt. Each fellowship pays tuition and \$180 a month in the case of the regular graduate student; mature scholars may in the discretion of the Law School Graduate Committee

receive somewhat more for maintenance. All fellowships, other than DeWitt Fellowships, are competitively awarded without reference to geographical area. Except in very unusual cases fellowships are awarded first to those who are or will be engaged in law teaching or legal research, or to those who are or will be occupied in government or judicial service. No fellowship will be awarded to a person who does not intend a career in law or law teaching. No award is made to one who does not plan to return to his home country. The amount of the stipend may be reduced to take account of dollar funds which the person has available to bring with him; ability to carry part of the expense of study in the United States is a favorable factor in the evaluation of a fellowship application, though by no means a controlling one.

An applicant should also investigate the possibility of a Fulbright, Smith-Mundt, or other United States government grant to facilitate study in the United States. Information may be obtained at the United States embassy or legation in the home country or at any United States Information Agency office or center.

Information concerning financial grants not administered by the United States government or by the Law School can be obtained by writing the Institute of International Education, 800 Second Ave., New York 17, New York.

A person receiving a scholarship from his own government will be given the utmost attention for admittance purposes, since the Law School is anxious to co-operate with official exchange and scholarship programs of the United States and of other nations.

The applicant should never expect to receive financial aid not promised in writing before arrival. Our scholarship funds are limited, and we will commit ourselves to a fellowship, if one is to be awarded, well in advance of the student's projected date of arrival. He must disregard any statements which any other person may make about the possibility of Law School or University aid to be granted after arrival. Nor can one assume that it is possible to obtain funds by outside work to finance a period of Law School study. A person who does not receive a Law School, United States government, or home government scholarship or fellowship is eligible only for a student visa. No student visa is to be issued without a showing of dollar resources sufficient to sustain the entrant during a full academic program. Only after the first semester in residence can work permits be obtained, and then only on a special showing and for a very limited number of hours a week. Remunerative jobs are not readily available for students, American or foreign.

IS IT POSSIBLE TO OBTAIN TRAVEL FUNDS TO AND FROM ANN ARBOR?

The Law School has no funds which can be granted to defray travel expenses, either to and from the United States or within the United States. Nor does it have any administrative influence through which government or private agencies can be persuaded to assist in travel.

Wherever possible, however, we try to notify the student of his admittance to graduate study or of an award of a fellowship in sufficient time so that he can make application to United States authorities for a Fulbright or Smith-Mundt travel grant. In every instance a letter of admittance or award of fellowship is sent the student to support his travel grant application. While there is no guarantee that a travel grant will be forthcoming, in a gratifying number of cases such grants have been made. Those on full United States government grants will of course have their travel expenses taken care of.

In most instances it is possible for the student to purchase, in his own currency, round-trip travel to and from the United States, and on occasion, according to his government's currency regulations, enough to cover rail or bus travel from the port of entry to Ann Arbor.



*Students relax in the
Lawyers Club lounge*

WHAT SORT OF VISA SHOULD I TRY TO SECURE?

Under the law the type of visa issued is to be determined by the United States embassy or legation in the country issuing the student's passport. Occasionally an immigrant visa is obtained which gives the student the option of staying within the United States permanently. It should be remembered, however, that no fellowship is awarded to one who does not intend to return to his home country to practice or to teach law. Immigrant visas are available only when the visa quota for the country permits. Usually the visas will be of the non-immigrant type, particularly the exchange visitor visa or the student visa. Persons receiving United States government, home government, or Law School fellowships will normally be given exchange visitor visas; the International Center will send the requisite form DSP-66 whenever a Law School fellowship is awarded. Students coming on their own resources will receive a student visa; the Law School will supply the required Immigration and Naturalization Service Form I-20 which the student may present to United States embassy officials. Under no circumstances should a student come under a tourist visa.

Upon arrival in Ann Arbor the student should report without delay to a counselor at the International Center and indicate his visa status. Members of the International Center staff are available at all times to counsel foreign students on immigration matters.

WHEN SHOULD I PLAN TO ARRIVE IN ANN ARBOR?

Except in unusual cases the student should plan to arrive in time for the beginning of the fall semester orientation week, falling late in August. The exact date for the coming academic year can be determined from the copy of the Law School Announcement which accompanies this bulletin. The orientation program for foreign students, and the special survey courses are available only during the first semester of the academic year. It is much easier to arrange a satisfactory program of course elections by conforming to the academic year schedule. Living accommodations are more readily available in advance of the first semester than at any other time. If instruction in the English Language Institute is desired, one should plan to arrive by June 1 and to enroll in the language program. This program ends in time for fall semester enrollment in the Law School. In special circumstances, however, initial registration in the Law School may be permitted either in January or June.

Upon acceptance the student will be sent a copy of the official University health examination form which is to be completed, in English, by the student and his physician and returned directly to the University of Michigan Health Service, 207 Fletcher Avenue, Ann Arbor, Michigan. Registration will not be permitted until this form has been completed and returned. In most cases the data required may be secured at the same time the physical examination for visa purposes is undergone.

**WHAT IF I HAVE ANY OTHER QUESTIONS
NOT ALREADY ANSWERED?**

Write at any time to the Adviser to Foreign Law Students, University of Michigan Law School, Hutchins Hall, Ann Arbor, Michigan, setting forth your problem. An air mail answer will be sent.



*Lawyers Club members plan
extensive extracurricular activities*



Summer Session, 1964

The Avery Hopwood and Jule Hopwood Awards

STATEMENT OF REGULATIONS



number 27



U^N**D**^E**R** the terms of the will of Avery Hopwood, prominent American dramatist and member of the class of 1905 of The University of Michigan, one-fifth of Mr. Hopwood's estate was set aside and given to the Regents of the University for the encouraging of creative work in writing. According to the bequest the Regents were empowered:

"To invest and keep the same invested and to use the income therefrom in perpetuity, as prizes to be known as 'The Avery Hopwood and Jule Hopwood Prizes,' to be awarded annually to students in the Department of Rhetoric of The University of Michigan who perform the best creative work in the fields of dramatic writing, fiction, poetry, and the essay. The number and value of the prizes shall be in the discretion of the Faculty or other governing body of the University, but the income shall be distributed annually or semiannually, and shall not be allowed to accumulate from year to year. In this connection, it is especially desired that the students competing for the prizes shall not be confined to academic subjects, but shall be allowed the widest possible latitude, and that the new, the unusual, and the radical shall be especially encouraged."

During recent years the awards have amounted to approximately \$15,000 a year.

At the time Mr. Hopwood made his will in 1922, the Department of Rhetoric was a separate department, but in 1930 it was fused with the Department of English Language and Literature. Consequently, the requirement which restricts students to the Department of Rhetoric was changed in fact to students enrolled in the Department of English. Students in the Department of Journalism, once a part of the Department of Rhetoric, are also permitted to compete.

The Hopwood contests were opened to students in the summer session for the first time in 1938.

AWARDS

Eight awards are offered, one of \$75 and one of \$50 in each of the four fields of writing—drama, essay, fiction, and poetry. Prizes may be redistributed in the event that the merit in a particular field makes such redistribution desirable.

RULES OF ELIGIBILITY FOR THE SUMMER OF 1964

1. All students in the summer session who are regularly enrolled in one course in English composition in the Department of English or in the Department of Journalism are eligible to compete—except students who have already competed three times in summer contests or who have already won a major award in a Hopwood contest.

2. No manuscript which has received a prize in any Hopwood contest shall be eligible in these contests.

3. No manuscript that wins an award in the summer contest is eligible in any subsequent Hopwood contest.

4. No manuscript or part of a manuscript that has been published in a medium other than a college magazine or college newspaper shall be eligible.

ADDITIONAL REGULATIONS

Manuscripts must be typed double-spaced, on one side of the paper only. Poems and plays need not be double-spaced throughout.

Three copies of each unit of composition shall be submitted. Rag paper, sixteen-pound weight, 8½ by 11 inches, must be used for the first copy. The two carbon copies may be on any white paper of at least thirteen-pound weight.

Each copy of the entire manuscript of a contestant in any one category of the contest shall be firmly bound in a neat and durable cover. Cover and manuscript shall be firmly fastened together. Unbound manuscripts, manuscripts fastened together merely with paper clips, and other manuscripts not likely to remain bound will be rejected by the Hopwood committee. The committee reserves the right also to reject all manuscripts that are not legibly typed.

Each copy of each manuscript, properly bound, shall have a title page, on which shall appear: (1) the name of the composition; (2) a pen name; (3) a statement that the manuscript is submitted in the category of drama, essay, fiction, or poetry.

The title of the manuscript and the pen name of the author shall be placed on the cover of the work submitted. A contestant shall use only one pen name.

Accompanying the manuscript shall be a sealed envelope with the contestant's pen name on the outside and containing the contestant's real name and address, and pen name.

All manuscripts shall be in the Hopwood Room by 4:30 P.M. Friday, August 7.

The committee reserves the right to keep on file one copy of each manuscript submitted.

The committee will not be held responsible for the safety of any manuscript presented in the contests.

JUDGES

The judges will be selected from the staff of the University.

FURTHER INFORMATION

Anyone desiring further information in regard to the contest may address A. L. Bader, Chairman of the Hopwood Committee, 1006 Angell Hall.

AWARDS—SUMMER SESSION, 1963

Drama: No award

Essay: Thomas Johnston, \$50

Fiction: John P. Fox, \$100; Joseph D. Feldman, \$50; Sister Janice Marie Lauer, \$50

Poetry: Julia Older, \$75; Nancy Keefer, \$50; Marjorie Rapaport, \$25

UNIVERSITY OF MICHIGAN
OFFICIAL PUBLICATION

Report of
The University Health
Service
1962-1963

Reprinted from the President's Report
for 1962-1963. The University of Michigan

ANN ARBOR, MICHIGAN
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THE HEALTH SERVICE

The predicted national influenza epidemic did not materialize among students of the University. Though nearby communities experienced a high incidence of upper respiratory infection, on campus the over-all number of cases was almost 1,000 less than in the previous year. Students with influenza-like symptoms were checked by members of the School of Public Health for viral identification. Seven of them were found to be infected with influenza viruses which were variants of former strains. A total of 424 cases were diagnosed clinically as influenza, compared with 429 the previous year. It is most difficult to draw conclusions concerning the relatively low incidence of influenza-like infections among students. One is tempted to credit the high immunization rate during October and November of 1962, but we cannot be sure. A total of 11,000 influenza immunizations were then accomplished, which is over 2,000 more than in any previous year.

There was once more a marked increase in the number of immunizations given for foreign travel. The total of typhoid, tetanus, and smallpox was over 3,500 compared with 2,500 in the previous year. Present facilities and personnel being over-taxed, we are preparing to establish a separate section for purposes of immunizing faculty and students for foreign travel.

Cases of so-called three-day or German measles appeared in the late winter and spring of 1963. The number never became great enough at any one time to reach epidemic proportions but cases continued to appear through the month of May. A total of 104 cases were diagnosed.

Each year a few diagnoses are made of tropical disease. This year a diagnosis of Hansen's disease was made for the first time in several years.

The concern of a year ago regarding increased incidence of infectious hepatitis has become allayed. The number of diagnoses in this past year was eight, which is comparable with the figure in years previous to 1961-62.

The Employees' Periodic Examinations Program was moved into new quarters during the summer of 1962. This change made it possible for that unit to operate throughout the

year for the first time. Total examinations for the year numbered 415, of which 166 were new and 249 were repeats. A total of 943 consultations for students were performed during the year by this unit. These consultations are made on request of clinic physicians of the Health Service in cases where specialized skills are called for.

A second group of Peace Corps volunteers was given service in the summer of 1962. This group consisted of 55 persons assigned to Thailand. Health Service performed or arranged for immunizations, dental repair, refractions and glass fittings, medical examinations, medical care of illnesses and injuries, and other services.

In the Department of Environmental Health and Safety, emphasis in the off-campus housing program was concentrated on the improvement of the kitchens in the affiliated and associated housing units. Twelve such kitchens were remodeled during the year.

The general safety program on the campus was advanced by the adoption of a uniform procedure for reporting emergency conditions. The procedure was publicized by the issuance of an "Emergency Chart," which has been posted in more than 300 locations. The employee safety program at University Hospital was strengthened during the year, and excellent employee safety programs were instituted by both the Plant Department and the Residence Halls system.

A major activity of the Department of Environmental Health and Safety was the co-ordination of the elements of the fallout shelter survey and the development of a suggested fallout shelter program for the campus.

On the request of Dr. Solomon J. Axelrod, Director of the Bureau of Medical Economics in the School of Public Health, a preliminary survey of Health Service was accomplished by Dr. Avedis Donabedian during the summer of 1962. This survey consisted of many detailed interviews with Health Service personnel. A report of this survey has been given to Health Service containing many suggestions for future studies. The Health Service is deeply indebted to Dr. Axelrod for his labors.

During the interim period in the summer of 1962, a complete renovation of the dishwashing equipment and installation of new equipment in the kitchen was accomplished. Plans are presently being made to modernize the refrigeration equipment in the kitchen.

It is hoped that small structural changes within the present building will make possible the handling of ever-increasing requests for outpatient care. It will also be necessary to increase the number of medical and allied personnel if we are to maintain the present standard of service for greater numbers of students.

A. GENERAL ITEMS

Selected. Detailed data available in Health Service records.

I. ENROLLMENT

Population Entitled to Service
(Estimated*)

	Men	Women	Total
Summer Session, 1962	7,138	4,021	11,159
First semester	15,335	7,667	23,002
Second semester	14,538	7,264	21,802
Two semesters (average of 1st and 2d)	14,938	7,464	22,402
Entire year	22,374	11,187	33,561

Note.—Future reports cannot be compared with previous years since the University is slowly moving toward year-round operation.

*Summer Session figures from final tabulations. First and second semester figures from the end of the 12th week of classes. Students not on main campus or not entitled have been subtracted from original total.

II. CLINICAL REPORTS (Entire year)

Department	Clinic Calls	New Patients	Room Calls	Hospital Referrals	Infirmiry Patients	Hospital Patients
General Clinic	39,893	11,307	26	497	1,495	134
Dentistry	6,626	923	78	47	4	1
Ophthalmology	1,534	163	...	117	2	...
Otology	739	34	...	21	...	...
Dermatology	2,889	307	...	2	2	1
Room-call doctors	...	2	733	...	...	41
Allergy	11,228	380	...	...	3	...
Surgery (bone and joint)	1,782	151	...	8	8	40
Mental Health	8,937	...	1	28	71	21
Dietitian	50	...	...	...	...	...
X-ray	15,882	...	85	...	...	...
Physiotherapy	3,238	...	...	...	...	...
Clinic nurse	10,082	761	...	...	...	...
Laboratory room calls	...	...	32	...	...	...
Consultation	905	...	...	...	...	...
Out-of-hours calls	1,290	448	...	...	...	...
Miscellaneous	13,654*	382	...	...	...	...
Total	118,729	14,858	955	720	1,585	238

*This figure includes several influenza immunization programs.

III. COMPARISONS—FIVE YEARS

Rates per 1,000 Students—Regular Nine-Month Session

	1962-63	1961-62	1960-61	1959-60	1958-59
Clinic visits	4,836	5,120	5,192	5,083	5,623
Room and out-of-hours calls . . .	85.3*	90*	98*	99*	97*
Infirmity patients (admissions)	68.5	80	80	79	75
University Hospital (admissions)	9.8	10.4	12.4	10.4	11.3
Mononucleosis (glandular fever)	9.6	13	10.5	10.2	7
Pneumonia	1.6	2.4	1.6	4.3	3
Upper respiratory infections (all)	188.9	244	185	227	133
Tuberculosis (lung, active)	.09	.1	.2	...	.45
Tonsillitis, acute	10.2	14	9	12	8.8
Otitis media	2.7	4.1	3.8	4	2.2
Appendicitis	1.8	2.81	2.98	3.3	2.9
Gastrointestinal upsets	33.4	31.1	24.8	21.2	23.3
Fracture (bone)	5.6	7.4	9.1	8.9	7
Diabetes mellitus	1.9	1.4	1.5	1.3	1.3

*Includes extended clinic-hour calls.

B. SELECTED DIAGNOSES AND SERVICES

	Entire Year	Regular Session
Infection, acute respiratory (total).....	4,443	4,235
Hay fever (including allergic rhinitis)	1,278	1,236
Traumas, various	783	704
Gastrointestinal upset, acute.....	793	749
Dermatological conditions.....	1,681	1,530
Other		
Measles, German	104	104
Mononucleosis, infectious.....	224	215
Fracture of bone.....	130	125
Appendicitis, acute	44	41
Pneumonia	40	36
Heart disease, organic.....	27	27
Malignancies.....	7	7
Hepatitis, acute infectious	9	8
Laboratory determinations (total, 48,830)*		
Basal metabolism	181	159
EKG	532	451
Nondiagnostic Terms for Record		
Minor operative procedures	83	83
Audiometer tests (individual).....	151	129
Various physical examinations.....	1,306	1,155
Deaths (Health Service patients—0)	3	2
Immunization procedures, patients (selected)		
Vaccinations (not injections).....	1,307	1,198
Anti-influenza.....	10,907	10,891
Antitoxin, tetanus	2	2
Toxoid, tetanus.....	1,377	1,228
Antityphoid.....	975	888
Poliomyelitis	607	485

Note.—To determine approximate rates per 1,000 "population" during the regular session, take 4.46 per cent of the actual number of diagnoses given. Example: 4.46 per cent of 41 gives a rate of 1.83 for appendicitis, acute.

*Includes faculty periodic examinations.

C. MISCELLANEOUS DATA

I. ALLERGY

	Entire Year	Regular Session
Visits for service	11,228	9,713
Average number of patients receiving hypo- sensitization in one month 789		
New cases for allergy study	321	284
New cases skin tested (scratch)	218	192
New cases skin tested (I.C.)	234	209
Other patients tested:		
Tuberculin	279	271
Patch	5	5
Coccidioidin	27	27
Histoplasmin	63	57

II. DENTAL

Health Service	Total
Visits	6,626
Emergency treatments	1,853
Prophylactic treatments	1,318
X-rays (persons)	1,692

III. MENTAL HYGIENE

Regular Session	Patients	Interviews
Women	768	4,432
Men	<u>911</u>	<u>4,612</u>
Total	1,679	9,044*

Ratio of patients to enrollment, regular two semesters, is 7.5 per cent.
This report does not include 80 nonstudent interviews.

Entire Year	Patients	Interviews
Women	844	4,649
Men	<u>1,047</u>	<u>4,959</u>
Total	1,891	9,608†

*This total included 660 infirmary interviews.

†This total included 671 infirmary interviews.

Classifications of Situations Determined

Acute brain disorders	1
Chronic brain disorders	2
Psychotic disorders	55
Involuntary psychotic reaction	1
Affective reactions	2
Schizophrenic reactions	52
Paranoid reactions	0
Psychotic reaction without clearly defined structural change, other than above	0
Psychophysiologic autonomic and visceral disorders	42
Psychoneurotic disorders	308
Personality disorders	703
Special symptom reaction	2
Transient situational personality disorders	471
YOO-administrative	90
Neurology	250
Total	1,924*

This report does not include 95 nonstudent interviews.

*This total includes 1,298 new cases and 593 old cases seen in previous years and seen again during the current year (July, 1962 through June, 1963).

IV. PHARMACY

	Entire Year	Regular Session
Prescriptions—drugs	38,523	36,056
Prescriptions—allergy	666	561
Allergy laboratory preparations manufactured, assayed, and packaged	3,034	2,391

The volume of drug prescriptions increased by 1.8 per cent as compared with that of 1961-62. Allergy prescriptions decreased 9.8 per cent; allergy laboratory preparations manufactured, assayed, and packaged decreased 5.5 per cent.

V. TUBERCULOSIS OF THE LUNGS (Active)

Results of Routine X-rays of all Entering Students, 1935-62

	Men		Women	
	Number	Per Cent	Number	Per Cent
1962 X-ray examinations	4,279	100.00	2,504	100.00
Active tuberculosis	1	.023	1	.04
27 years of X-ray examinations	86,736	100.00	46,699	100.00
Active tuberculosis	98	.11	48	.11

VI. SUMMER SESSION CAMPS

As in the past, the University maintained the following summer camps: (1) Biological Station—Health Service physician in attendance; (2) Camp Davis—Health Service nurse in attendance; (3) Camp Filibert Roth—local medical service used at Health Service expense; (4) Geology Camp—local medical service used at Health Service expense.

D. TRAINING PROGRAMS

Students in retail or hospital pharmacy curriculum take six hours of laboratory work. Three of these are in the University Medical Center Pharmacy or in the Health Service Pharmacy, under faculty supervision. In the past year 15 seniors received such training during the first semester, and 14 the second semester.

Seventeen medical technology students received some training and experience in our Clinical Laboratory.

Morley B. Becket, M.D., M.P.H.
Director

MEDICAL SCHOOL

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THE UNIVERSITY OF MICHIGAN

Official Publication





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Medical School

1964-1965

One hundred fourteenth session

Announcement

Published by the University Ann Arbor

Calendar, 1964-1965

FIRST- AND SECOND-YEAR CLASSES

Registration	August 26, 27, 28, 1964
Orientation for first-year class	August 27
Classes begin	August 31
Labor Day, a holiday	September 7
Thanksgiving holiday	November 26-29
Examination period	December 19-23
Fall term ends	December 23, 1964
Christmas recess	December 24-January 10, 1965
Spring term begins	January 11, 1965
Spring recess	March 20 (noon)-28
Classes resume	March 29
Examination period	May 10-15
Term ends	May 15, 1965

THIRD-YEAR CLASS

Registration	May 11-15, 1964
First period	June 8-August 30
Second period	August 31-November 22
Third period	November 23-March 14
Christmas recess	December 21-January 17, 1965
Fourth period	March 15-June 5, 1965
Examination period	June 7-12, 1965

FOURTH-YEAR CLASS

Registration	May 25-29
First half	June 8-November 29
Thanksgiving holiday (at discretion of the departments)	November 26-29
Second half	November 30-May 29
Christmas recess (at discretion of the departments)	December 19 (noon)-December 27
Term ends	May 29, 1965
Final Exercises	June 4, 1965

SUMMER SESSION, 1965

Registration	June 17-18, 1965
Classes begin	June 21
Classes end:	
Six weeks	July 31
Eight weeks	August 14

• This calendar is subject to change.

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MEDICAL SCHOOL

Introduction

The objectives of the University of Michigan Medical School are:

To create an environment that will attract to it students and faculty of excellence,

To provide optimum opportunities for the student to learn significant facts and principles, to develop independent intellectual discipline, and to acquire the skills and judgment required to apply his knowledge to problems of human health and disease, whether as a clinician or a laboratory investigator,

To investigate and evaluate the phenomena of life so that knowledge and understanding are increased,

To set by example the standards of humane clinical practice and responsible scientific inquiry that are the foundations of professional competence, and

To have its faculty and students seek professional and personal fulfillment through dedication to these objectives, both in the Medical School setting and by their professional lives.

To implement these objectives the University of Michigan Medical School has established a four-year curriculum designed to present the fundamental principles of medicine, to assist in the development of the ability to observe and evaluate critically, and to instill in the student independent curiosity of thought.

During the first two years of Medical School, the student devotes himself to acquiring knowledge of the basic medical sciences and understanding of the foundations upon which clinical medicine is based. Anatomy, biochemistry, and physiology are taught in the first year, while pathology, microbiology, and pharmacology are the major subjects of the second year. To correlate the student's knowledge of the basic sciences with the management of clinical problems, clinical conferences and patient demonstrations are conducted during the first two years. The study of psychiatry begins during the freshman year and continues throughout the entire medical curriculum.

In the second year, opportunities to work with patients are increased and the student is assigned to the hospital wards. Courses in neurology and in the techniques of physical examination and diagnosis are included in the second year.

The third and fourth years are clinical in orientation, and the student obtains clinical experience as a student physician. During the third year the junior class rotates through the clinical departments of the Medical School. Nine months of this year are devoted to clinical clerkships on the hospital wards. Of these, three months are spent on surgery, three months

on internal medicine, and three months on pediatrics. Emphasis is placed on active student participation in patient examination and care, on the responsibility of the physician for the continuing care of the patient, and on the importance of an understanding of the life history of the disease processes encountered. All students attend a daily, single, whole-class exercise during the entire year, and the lectures cover the major clinical subjects. A remaining three-month period is devoted to the specialty subjects, including neurology, psychiatry, otology, ophthalmology, and dermatology.

The fourth year is divided into two six-month units. In one six-month period, assignments are made to the clinical departments, where opportunities for further experience in medicine, surgery, and obstetrics and gynecology, as well as in the specialty subjects, are provided. During this period, a required obstetrical clerkship is served, and correlative lectures on clinical subjects are given. The second six-month period is divided into three months of vacation and three months of selective study. During the latter period, the student may elect to gain additional clinical experience in a teaching hospital, to participate in the academic programs of the clinical and preclinical departments at this or other universities, or to return to the University for further instruction in nonmedical but related fields. The student interested in research may utilize the selective period to initiate his investigative efforts or complete projects upon which he embarked earlier in Medical School. Those individuals interested in a subsequent family or general medical practice may elect this period in an approved activity appropriate to that career goal.

Admission

GENERAL STATEMENT

Students admitted to the University of Michigan Medical School are selected by an Admissions Committee composed of members of the basic science and clinical faculty. In making its selection from each year's group of applicants, the Committee recognizes the fact that it is selecting potential physicians. The admissions procedure is, therefore, an effort to select applicants possessed of those talents, skills, and interests which are requisites for the successful study and practice of medicine.

Characteristics evaluated include motivation, competence, character, and personal fitness. The academic record and the Medical College Admission Test furnish an estimate of intellectual competence. The less tangible qualities of character, personal fitness, and motivation are judged from reports of teachers, letters of recommendation, and further examination. No information that may help the Admissions Committee to select those

CORRECTION

June 1, 1964

Admission

Please Note: The Organic Chemistry requirement has been changed to 8 hours (including 2 hours laboratory), effective for the class entering in 1965 and subsequent years.

Thus, the Chemistry requirement as stated in this catalogue, page 7, under the heading "Required Courses," should read:

- "a) Chemistry 16 hours
1. General (i.e., inorganic; four hour laboratory) 8 hours
 2. Organic (two laboratory) 8 hours
- One year survey course, including aliphatic and aromatic hydrocarbons."

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The footnote on page 7 may be disregarded.

At schools where 10 semester hours of Organic Chemistry are available, then such a course is recommended although the specific requirement is 8 semester hours.

As a result of the decrease of the total chemistry requirement by 2 hours the total minimum time available for electives, as shown on page 8, will increase by 2 hours.

Either graduation from high school or fifteen units of high school credit is a requirement for admission. No specific high school courses are required, but certain courses are necessary for required college courses, such as mathematics for college physics.

All applicants, including those holding the degree of Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Doctor of Philosophy, or Doctor of Dental Surgery, or degrees in pharmacy, nursing, or veterinary medicine, must meet the following hour, subject, and grade requirements:

1. Three years (ninety semester hours) of work beyond high school completed in an accredited college or university. This minimum must not include courses which are taught in the Medical School, or for which credit will subsequently be granted toward the medical degree.

2. Completion of the following specific subject requirements (indicated in semester hours).

Required courses:

- a) Chemistry 18 hours
1. General (i.e., inorganic; four hour laboratory) 8 hours
 2. Organic (two laboratory) 10 hours*
- One year survey course, including aliphatic and aromatic hydrocarbons.
- b) Physics (two laboratory) 8 hours
- c) Biology (four laboratory) 8 hours
1. General biology, zoology, or botany 4 hours
 2. Zoology 4 hours

* Eight semester hours of organic chemistry will be accepted for those students who have also completed a course in analytical or physical chemistry. When such a course exceeds two hours, the additional hours of credit earned may be counted toward fulfillment of the advanced science requirement.

The stated chemistry requirement is effective for the class entering in 1965 and subsequent years. For the class entering in 1964, a minimum of six hours of organic chemistry and a minimum total of fourteen hours of general and organic chemistry will be accepted, although additional work in organic chemistry is strongly recommended.

- d) *Advanced science course* 4 hours

In addition to the above hour requirements in chemistry, physics, and biology, four hours credit in an advanced course in one of the above disciplines.

- e) *English composition* 6 hours

If excused from the second semester in English composition because of unusual competence, a three-semester-hour course in literature may be substituted to meet this requirement.

- f) *Foreign language* 6-8 hours

All applicants are required to have at least one college year of French, German, Spanish, Russian, Latin, or Greek. This requirement may be met either by completing satisfactorily a two-semester language sequence in college or by certification of a language proficiency examination.

A grade of D cannot be accepted in any of the required courses.

Electives:

At least 38-40 hours

Some psychology electives will assist the student's understanding of later courses in psychiatry. Embryology or comparative anatomy will provide background for the anatomy courses. Other electives such as mathematics, economics, sociology, anthropology, political science, history, philosophy, fine arts, literature, or speech add significantly to one's educational background and preparation for medical practice. The recent experience of this Medical School indicates that approximately 60 per cent of our entering students have four years of college preparation. Courses in highly specialized fields are accepted only at the discretion of the Admissions Committee.

Total:

A minimum of 90 hours

3. Specific grade requirements. The student must, at the time of his application, present a minimum average grade of two and one-half honor points for each semester hour of work completed, calculated on the total of *only those courses* which can be accepted as required or acceptable elective subjects. A minimum average of two and one-half honor points must be presented for all required science work, as well. One semester hour of A equals 4 points, of B, 3 points, etc., and of E equals no points. *D grades cannot be accepted in required courses.* In the case of a grade of E or failure in a required subject, the course should be repeated and passed. No applicant dropped from another medical school can be accepted.

4. Physical condition of the applicant must be approved. Students entering The University of Michigan for the first time are required to submit a physician's report on a special form supplied by the Medical School Office prior to the time of registration.

5. The student must be selected by the Admissions Committee as outlined in the preceding general statement.

Admission to the Medical School does not necessarily imply that the secondary-school and college-grade credentials meet the requirements of the Michigan State Board of Registration in Medicine, as that is a sepa-

rate institution. Certification to the Board is routinely made by the Medical School Office. The student will be advised by this office if deficiencies exist.

PROCEDURE FOR ADMISSION

All correspondence concerning admission should be addressed to the Chairman of the Admissions Committee, Medical School, University of Michigan, Ann Arbor, Michigan. The applicant shall file the following between July 1 and December 31:

1. A fully executed application form which may be obtained from the Medical School after July 1.

2. An official transcript bearing the school seal mailed directly to the Medical School *from each college or university attended*, including the work, if any, of the first semester of the present year. Credentials of applicants will not be considered unless they show a complete and honorable record, including descriptive names of courses, number of hours of lecture and laboratory work, and grades received. *No entrance conditions are allowed.*

3. A recent unmounted photograph of professional quality, three by four inches in size, *which bears the applicant's signature on the reverse side.* Snapshots are not accepted.

4. If possible, a *comprehensive* report of the official committee on pre-medical advisement of the institution in which the applicant is presently enrolled, if such a report is routinely furnished. If this is not available the applicant should request two letters of recommendation, one from a science instructor and one from a nonscience instructor, to be forwarded.

5. Results of the Medical College Admission Test recommended by the Association of American Medical Colleges, taken prior to the date of application. Arrangements should be made by the applicant to take this test at the institution in which he is presently enrolled. The applicant should indicate to the examining board that he wishes the results of the test forwarded to the University of Michigan Medical School.

6. An application fee of \$5.00. No part of this fee will be refunded nor will it be applied as an advance payment on other fees.

7. The applicant should be prepared to appear for a personal interview if he is invited by the Committee on Admissions. It is not possible for the Committee to grant an interview to every student making application for admission. Students living in or near Ann Arbor are expected to come to the Medical School Office, whereas others may be interviewed by an alumnus of the School who resides in the vicinity of the student.

8. All credentials accepted toward admission become the property of the Medical School and are kept permanently in its files.

9. The applicant will be informed on the action of the Admissions Committee as soon as possible.

A \$50 deposit, refundable until January 15, is required within two weeks following notice of acceptance. The deposit will be applied toward the first payment of tuition.

10. An applicant accepted by the Medical School who fails to enroll and wishes to enter in a subsequent year must make a complete new application.

An applicant reapplying after non-acceptance also is required to submit a complete new application.

No final decision for acceptance will be reached until a complete application and the above supporting materials have been received.

ADVANCED STANDING

Students are admitted to advanced standing the second and third years only. Application to advanced standing must be made *not later than April 15*.

The following requirements must be met:

1. An applicant must have matriculated *as a medical student* in an approved medical school for a period of time equal to that spent by the class in which he seeks entrance and must have completed courses equivalent to those required of that class.

2. He must file a completed application form and must present official transcripts from each school attended showing that he meets in full the entrance requirements for admission to this School (see Procedure for Admission).

3. He must be a student in good standing at the medical school from which he is withdrawing. A letter of support from the Dean of that school is required.

4. *He must be in the upper half of the medical class from which he is withdrawing, and have a B average in his medical work.*

5. He must appear before the Dean for a personal interview if requested.

6. If any deficiency exists, this must be corrected before the student enters the work of his first academic year in this Medical School, unless specific permission in writing is obtained from the Dean. This may require:

- a) Validation of credits by the various department heads
- b) Completion of minor courses not common to all medical curriculums or
- c) Examination in any of the subjects presented for transfer.

REDUCED PROGRAM

Before a medical student may elect a reduced program, permission must be obtained from the Medical School Office. Such permission is granted only because of illness.

JOINT PROGRAM IN LIBERAL ARTS AND MEDICINE

Qualified students desiring to earn a baccalaureate degree in the College of Literature, Science, and the Arts and the degree of Doctor of Medicine in the Medical School of The University of Michigan will be allowed a maximum of fifteen hours credit by both the College and the Medical School for certain courses designated by the College and required by the Medical School in the first two years of its curriculum.

To be eligible to receive the baccalaureate degree under this program, the student must complete 105 hours of Literature, Science, and the Arts credit with a grade-point average of 3.0 or higher. These 105 hours must include all but six hours of a concentration program and all other requirements for graduation from the College. At least forty-five of the 105 hours must be earned in residence in this College. In addition, the student must complete, with an average record of C or better, all the required courses in the first two years of the Medical School program.

When the above conditions have been met, the College of Literature, Science, and the Arts will grant the baccalaureate degree by accepting a maximum of fifteen hours from the following Medical School courses, as approved by the professional adviser:

- Anatomy 540 (11 hours), 550 (6 hours), 560 (2 hours), 640 (4 hours)
- Microbiology 620 (7 hours)
- Biological Chemistry 511 (8 hours)
- Pathology 620 (9 hours)
- Pharmacology 620 (5 hours)
- Physiology 515 (8 hours)

Application for admission to the joint program should be made to the preprofessional adviser during the last term of the applicant's residence in the College of Literature, Science, and the Arts.

SPECIAL STUDIES PROGRAM

To provide opportunities for more advanced learning and research to a limited number of highly qualified students, a Special Studies Program has been instituted. It is anticipated that some of these students will be

preparing for a career in investigation and teaching in the medical sciences. The Special Studies Program, however, is designed for all interested and competent students whether they are planning careers in teaching and research or in clinical medicine.

Participants in the Special Studies Program are selected on the basis of demonstrated academic ability, acknowledged interest and sufficient initiative to engage in independent research or in a program of studies in their Medical School courses of the honors type.

Those students desiring to participate in research projects select a field of particular interest. Active investigation is carried out under the guidance of a faculty adviser. Seminars presented by the students provide a broad introduction to a pursuit of problems important in modern medicine. These are directed toward the philosophical aspects of research, the approach to research problems, the methods and techniques utilized in conducting research, and the analysis and interpretation of research data. Some students may embark upon research projects during the summer prior to entering Medical School, while others utilize free time and elective periods provided during the four years of the Medical school curriculum to carry out their investigations. Occasional students elect to spend an additional year doing advanced work in a special field or carrying out intensive research.

Those students desiring to participate in the program of honors courses select from departmental offerings with the help of a faculty adviser. Many students electing honors course work will participate in the honors offerings of all departments engaged in the regular medical curriculum. Others may choose to take honors work in only one department. Each student involved in honors course work has guidance from a faculty tutor.

Some students may elect to participate in both a research project and in honors course work. Students may enter or leave any part of the Special Studies Program at the end of any semester, or they may be asked to leave the Program if their performance is not up to expectations.

A student who has been accepted for admission to the University of Michigan Medical School and who desires the opportunity to enroll in the Special Studies Program should submit an application. It should be emphasized that admission to the program does not automatically provide financial support to the student and that this program is in addition to, but does not conflict with, the regular Medical School curriculum.

Requests for an application or further information should be directed to:

Co-ordinator, Special Studies Program
Office of the Dean
University of Michigan Medical School
Ann Arbor, Michigan

COMBINED DOCTORAL CURRICULUM

The Combined Doctoral Curriculum provides students an opportunity to obtain the Doctor of Medicine and Doctor of Philosophy degrees without duplication of effort. This program will enable the student who looks forward to a teaching and research career in medicine to acquire competence in both the basic science and clinical aspects of his chosen field. Since a student may elect to seek admission to this program at an unpredictable point in the course of graduate study, it has not proved feasible to establish uniform requirements for admission to the Combined Doctoral Curriculum. Generally, however, a student will be permitted to enroll in this program only: (1) after he has been admitted to both the Medical School and the Horace H. Rackham School of Graduate Studies; (2) upon the recommendation of the chairman of the department in which he proposes to work toward the degree Doctor of Philosophy; and (3) with the approval of the Deans of the Medical School and the Horace H. Rackham School of Graduate Studies.

Double credit cannot be given to students enrolled in the Combined Doctoral Curriculum for any course taken in fulfillment of the requirements for either degree. Credit toward the degree of Doctor of Medicine for Medical School courses taken prior to application for formal admission to the Medical School will be given at the discretion of the departmental chairman responsible for teaching the particular course. Following admission to Medical School, the student will embark on a special program to be individually arranged upon the recommendation of the sponsoring department. This program is subject to approval by the Office of the Dean of the Medical School. Although a student enrolled in the Combined Doctoral Curriculum may have previously taken courses taught by the faculty of the Medical School, and may not be required to repeat the details of this work, he will be required to carry a full academic load during each of the four academic years of medicine. With rare exceptions, the student will be expected to complete the last two years of Medical School without interruption. Since candidates for the Ph.D. degree must pay full program fees for three academic years, a minimum of seven academic years must be spent in registration to fulfill the requirements leading to both degrees. Consequently, a total of four years of Medical School fees and three years of Graduate School fees must be paid. An *Announcement* listing the admission requirements and fees of the Horace H. Rackham School of Graduate Studies can be obtained by writing directly to that school.

SPECIAL STUDENTS

Only persons desiring training in anesthesia who are candidates for the Certificate in Anesthesia granted by this School are permitted to register as special students in the Medical School.

ORIENTATION

New students will be sent information about the orientation program during the summer prior to their enrollment in the Medical School. The program usually takes place several days prior to the beginning of the fall semester. It consists of presentations and tours to acquaint the students with the program and facilities of the school. Registration, class photograph, and chest X ray of enrolling students are part of the program. All new students are required to attend.

REGISTRATION

First-year students will register as part of their orientation program. Second-year students will register at the beginning of the fall term and the midyear term. It is planned that third- and fourth-year students will register once a year in May. Specific dates and procedures will be announced.

CONCURRENT REGISTRATION IN TWO SCHOOLS

A student who desires to be registered concurrently in two schools, or to pursue irregularly course work designed to permit candidacy for an advanced degree in addition to the M.D., must obtain the permission of the Dean of the Medical School. *Except in the combined curriculum, such double registration does not permit the student double credit for any course or program of study.*

Fees and Expenses

Semester fees:

Michigan students.....	\$375
Non-Michigan students.....	\$750

Semester fees are payable prior to registration, at registration, or in installments during the semester on dates to be specified in advance.

The fees and charges imposed by the University, and the conditions for admission and the requirements for graduation, are subject to change by the Regents without notice.

A \$50 deposit to be applied on the semester fee will be required on acceptance to the Medical School.

Foreign students who are not provided with Health-Hospital Insurance by their sponsors are required to purchase Student Group Health Insurance. The cost of this coverage (approximately \$25) *must* be paid at the time of registration. This coverage extends for a full twelve months.

Laboratory fees. A breakage fee of \$5.00 is required in each of the laboratory courses of the first two years.

Microscopes. Microscopes are furnished for use in the laboratories of the basic medical sciences. Students may wish to rent microscopes in the second year for home work.

Reduced program fee. The reduced fee for a divided schedule, or one-half the normal program, is \$195 a semester for Michigan residents, and \$385 a semester for nonresidents, for the usual privileges of tuition. The special privileges, such as Michigan Union or Michigan League membership and outdoor physical education, may be secured by paying the appropriate extra fee at the time of registration.

Fees for special technical course. The fee for the twelve-month course in anesthesia is \$110 for Michigan residents or \$210 for nonresidents.

Living expenses and housing. For information concerning housing and the cost of living, students may refer to the *General Information* bulletin or may communicate with the Office of Student Affairs. The medical student is permitted considerable latitude in his choice of housing, and an adequate supply of good accommodations is available to both single and married students.

REFUND OF FEES

1. Students withdrawing during the first two weeks of classes shall pay a disenrollment fee of \$30 but will be refunded any part of the fee which has been paid.

2. Students withdrawing during the third week of classes in the Divided Term and in the third, fourth, fifth, and sixth week of classes in a full term shall pay a disenrollment fee of \$30 or shall forfeit 50 per cent of the assessed fee, whichever is larger.

3. Students withdrawing subsequent to the sixth week of classes shall pay the assessed semester fee in full.

4. No refund is granted unless applied for within ninety days after withdrawal.

5. Withdrawing students must (a) present to the Supervisor of Student Accounts evidence of withdrawal approved by the Office of Registration and Records; and (b) surrender to the Supervisor of Student Accounts the athletic coupon or book of tickets for future athletic events, the student

identification card, and the student registration certificate. If the athletic coupon or book of tickets for future athletic events is not surrendered, assessments at face value will be made for such items.

6. Any refund due the student will be mailed to his home address.

Facilities for Instruction

The focal point for the instructional activities of the Medical School is the Medical Center in which are situated classroom, laboratory and hospital facilities for clinical and preclinical instruction, and facilities for research. Affiliated hospitals in Ann Arbor and Wayne County also provide additional facilities for clinical instruction. Part of the preclinical instruction is provided in the East Medical Building on the University's main campus.

The Departments of Anatomy, Microbiology, and Physiology are in the East Medical Building on the main University campus. The Departments of Biological Chemistry and Pharmacology and the Medical School administrative offices are in the Medical Science Building in the Medical Center. The Department of Pathology is located in an adjoining building.

The University Hospital and related units in the Medical Center afford excellent opportunities for proper patient contact, under supervision, in the treatment of all diseases. There are departments and sections established in the following areas: allergy, anesthesiology, arthritis, cardiology, dermatology, endocrinology, general surgery, genitourinary surgery, gastroenterology, gynecology and obstetrics, hematology, hypertension, human genetics, industrial medicine, internal medicine, medical chest, neurology, neurosurgery, ophthalmology, oral surgery, orthopedic surgery, otorhinolaryngology, pathology, pediatrics and communicable diseases, physical medicine and rehabilitation, psychiatry, diagnostic and therapeutic radiology, speech correction, and thoracic surgery.

To round out the teaching and service aspects of the institution, the Hospital also has a number of highly specialized service units with trained personnel and sophisticated equipment. These include a Burn Unit, Physical Medicine Unit, Rehabilitation Center, Electroencephalograph Laboratory, Intensive Care Unit, and a Clinical Research Unit. Many other specialized units concentrate on such areas as diet therapy, convulsive disorders, serology, heart surgery, radioisotope, postanesthetic recovery, and occupational therapy.

Student teaching also extends to St. Joseph Mercy Hospital, a nonprofit community hospital, with a 508 bed capacity, and to the Veterans Administration Hospital, with 500 beds, both located in Ann Arbor, and to Wayne County General Hospital, with a capacity of 4,306 beds, in nearby Wayne County.

The Medical Center Library contains a collection of some 45,000

monographs and approximately 100,000 volumes of bound periodicals. Nearly 2,000 medical journals are currently received. A detailed author-subject-title card catalogue, as well as extensive files of printed indexes, abstracting services, catalogues, and bibliographies make the contents of the books and periodicals readily accessible. This vast collection of journals covering more than a century ranks it as one of the most important medical reference libraries directly connected with any medical school. The large number of texts and treatises, as well as journals, gives the student the complete evolution and present status of knowledge both of the basic medical sciences and of clinical medicine.

In the Medical Center also are the Simpson Memorial Institute, a unit devoted to research in cancer and diseases of the blood, the Kresge Medical Research Building, housing many varied research activities, the Mental Health Research Institute, in which is conducted an interdisciplinary approach to the problems of mental disease, and the Kresge Hearing Research Institute.

Recently completed are the Animal Research Facility, the Buhl Research Center for Human Genetics, and an addition to the Kresge Medical Research Building. Planning is under way for a second Medical Science Building, which, when completed, will permit all of the preclinical departments to be located in the Medical Center.

The University Hospital is a major health resource for the State of Michigan. As a "referral hospital" it accepts patients from throughout the state and adjoining areas.

In the year 1962-63, there were 278,268 patient days spent in the Hospital. There were an additional 252,394 clinic visits by outpatients. During this year, also, 8,028 operations were performed, 17,509 radiological treatment procedures were carried out, and 1,354 babies were delivered. The hospital itself is self-supporting, operating with no expense to the University.

The Medical Center proper has a capacity of approximately 1,000 beds, with 721 of these located in the fifteen-story main unit of the University Hospital.

Eight upper levels are occupied by the inpatient departments. Private, semiprivate, and ward care are available to the various services which are, as far as possible, located on separate floors. The eleventh level has been equipped as a modern tuberculosis unit, furnishing excellent facilities for instruction and teaching. The thirteenth level houses the hospital school, and a respirator center for fifteen patients.

An adjoining Neuropsychiatric Institute contains offices, an amphitheater, recreation hall, and beds for 79 patients, including a unit for 19 adolescent patients. It receives for treatment residents of Michigan who may be ill with mental disorders that are mild and in their early manifestations. The large and well-equipped laboratories of the hospital furnish exceptional facilities for instruction and research in neuropsychiatry.

Connected with the main Hospital building is the Outpatient Building. Eighteen specialized clinical divisions and emergency service as well as

X-ray and laboratory facilities are provided. Teaching facilities include 27 staff rooms and 5 classrooms that are interposed with patient examining areas—169 rooms, 57 cubicles, 27 treatment rooms, and 9 operating rooms, together with laboratories and service areas.

The Women's Hospital, with a capacity of 78 beds and 43 bassinets, incorporates two types of facilities for the care of obstetrical patients, the first being the large general nursery type of accommodations and the second the smaller "rooming-in" type of nursery which provides closer mother and infant contact. Patients in the gynecological service are also cared for in this unit. The building is equipped with two delivery rooms, one operating room, and a large laboratory.

The Children's Psychiatric Hospital is separately housed. It has a 54-bed capacity in three wards. A large outpatient department is an integral part of the unit. This psychiatric unit also contains school rooms and occupational therapy rooms, a swimming pool, gymnasium, and an auditorium.

Student Facilities

Michigan Union. The University of Michigan Union was organized and incorporated under the laws of the state of Michigan in 1904 to establish a University social center for men; to provide a meeting place for faculty, alumni, and students of the University; to furnish a home for alumni when in Ann Arbor and a place for wholesome relaxation for students so that their leisure time, their amusements, and their student interests, through the medium of the University atmosphere of the Union, might become a component part of their education.

The Union Building provides an assembly hall seating six hundred for meetings, conventions, concerts, and dances; restaurant service including the main dining room, a number of private dining rooms, a snack bar, and two cafeterias; and 182 sleeping rooms accommodating 283 persons, for the use of alumni and guests of members. There are also a swimming pool, bowling alleys, a billiard room, a lounge, a barber shop, and a library and reading room. Facilities recently have been enlarged to include additional meeting and dining areas, as well as recreation rooms.

Michigan League. The Michigan League Building, erected by alumnae and friends of the University and completed in 1929, provides for the women of the University a clubhouse similar in scope to that of the Michigan Union for Men.

Health Service. Through its Health Service, the University supplies health instruction and protection, with generous care of illness as part of the student's regular privileges. Attention to sickness includes operations, medical care, and fifteen to thirty days' hospitalization for acute illnesses which develop after enrollment. The service is also available to students

in the summer session and to those of the winter session who remain during holiday vacations.

The offices where students may receive usual medical attention, including special examinations and medicines, are on the lower floors of the building and are open regularly during class hours. Students may consult any staff physician at choice, but certain physicians are their regularly appointed medical advisers. Attention which requires a special visit of a physician, such as to the student's room, carries a University charge to the patient. A physician is available on call at any hour of the day or night.

Bed care is regularly given in the sixty-bed infirmary on an upper floor of the Health Service Building. Extra expense for private rooms, special nursing, etc., is likely to result for patients sent to other hospitals. The physicians of the Medical School and Hospital co-operate with the Health Service whenever students need the attention of additional specialists.

As required by a University Regents' bylaw, all foreign students must be covered by hospitalization. See Fees and Expenses, page 15.

International Center. The International Center serves the general international concerns of the University, and particularly those related to foreign students.

Academic and curricular problems are normally discussed with academic advisers, but counselors in the International Center are available for help with financial, immigration, housing, and personal adjustment problems.

Varied program services are available. A part of the Michigan Union Building, with a separate entrance from Madison Street, provides the Center's headquarters and facilities for lounging, reading, meetings, recreation, and social gatherings. The International Student Association, the nationality organizations, and other student groups having international interests also have office space in the Center. The Madelon Pound House at 1024 Hill Street, with the atmosphere of a pleasant home, offers to the student additional space for individual recreation as well as rooms which may be reserved for small group activities.

New students from abroad are invited to visit the Center upon arrival. They may use it as an advance mailing address and may send a limited amount of luggage in care of the Center prior to their arrival on the campus.

History and Growth of the Medical School

The University of Michigan Medical School was one of the first state-supported medical colleges in the United States. Although acts of the Territory of Michigan in 1817 and the first state legislature in 1837 had made provision for the teaching of medicine at The University of Michigan, it was not until 1850, largely through the untiring efforts of Dr. Zina Pitcher, Dr. H. Douglas, and Dr. Abram Sager, that the Medical School first opened its doors.

Ninety-one students entered the Medical School that first October, each paying a matriculation fee of \$10.00, which covered the cost of the entire medical course. The curriculum consisted of four lectures daily except Saturday, which was devoted to clinical instruction and reading of theses. The academic year extended six months, probably the longest of any medical school in the country at that time. At first there was neither laboratory work nor hospital instruction. Though the school was small, even in its first year the enrollment exceeded that of the literary college, and there were no other professional colleges in the University.

From this beginning of the school, growth has been rapid and continuous. Very early the need was recognized to supplement the didactic lectures with laboratory work, and by 1852 practical anatomy was a required course. As the years passed additional laboratory courses were offered, first as electives, then as required subjects: practical chemistry, 1865; physiological chemistry, 1881; physiology, 1883; pathology, 1888; bacteriology, 1889; pharmacology, 1892. The growth of classroom demonstrations and the experimental approach to medicine was stimulated particularly by Dr. Victor C. Vaughan, who served as Dean of the Medical School from 1891 to 1921. At the same time, there was a struggle to provide better clinical teaching. In the early years of the school, Dr. Moses Gunn, first professor of anatomy and surgery, held surgical teaching clinics. He urged out-state practitioners to bring their difficult cases to Ann Arbor for consultation, and this arrangement has persisted. In 1869 a faculty residence was converted to provide patients' accommodations, this being the first "hospital" owned and controlled by a university in connection with its own medical school. In 1876 these facilities were enlarged by the addition of two wooden pavilions. According to the custom of the day, these were temporary structures which were to be destroyed in five to ten years to combat inevitable bacterial contamination. But the inadequacy of these expanded clinical facilities soon became apparent, and there was discussion of removing the medical school to Detroit. This movement was halted, however, in 1889, when the state legislature and the citizens of Ann Arbor provided \$116,000 to build a new group of hospital buildings on Catherine Street. These facilities permitted a marked and continuing expansion in clinical teaching.

Expansion of the medical curriculum during these years led to lengthening the course from two to three years in 1880. A fourth year was added in

1890. Repetition of courses and preceptorships were discontinued. Entrance requirements were expanded to include graduation from high school and two years of college by 1903, and a third year of college was required in 1931. Michigan, in 1892, offered students the first combined curriculum program. The initial enrollment of ninety-one students in 1850 had jumped to 242 in 1860 and 575 by 1866, the largest medical school enrollment in the United States at that time. Women were admitted as early as 1870, and a peak matriculation of 68 women was reached in 1895. At present more than 10,000 men and women have graduated from the Medical School.

Constant additions to the physical facilities were made to keep pace with the growth of the School. Additions were made to the west hospital group on Catherine Street in 1896 and 1903, and south hospital (now North Hall) was erected in 1899. The West Medical Building was built in 1901-1903, the Psychopathic Hospital (now Beal Residence) in 1904, and the Contagious Hospital in 1913. The present University Hospital was begun in 1920 but stood gaunt and boarded when the initial appropriation proved insufficient to complete the project. Finally, largely through the efforts of Governor Groesbeck, the legislature granted an additional appropriation of \$2,300,000, and the first patient entered the hospital on August 12, 1925. Political opponents of the governor labeled the hospital "Groesbeck's Folly," since it did not seem possible that enough patients could be enticed to Ann Arbor to fill its 700 beds. Instead, within six years the hospital required an addition. Many other new buildings also have been added to the University Medical Center: East Medical Building, 1925; The Thomas Henry Simpson Memorial Institute for Medical Research, 1926; the Neuropsychiatric Institute, 1937; the Veterans Rehabilitation Center, 1947; Women's Hospital, 1953; Outpatient Building, 1953; Kresge Medical Research Building, 1954; the Medical Library, 1955; the Children's Hospital, Psychiatric Unit, 1955; the Mental Health Research Institute, 1960; the Kresge Hearing Research Institute, 1962; and the Buhl Research Center for Human Genetics, 1963.

Study Program

KEY TO BUILDINGS AND ROOM NUMBERS

EM—East Medical Building
 HA—Room D6430, University Hospital
 MS 3—Room 3330, 3rd-level Amphitheater, Medical Science Building
 MS 4—4th level Laboratories, Medical Science Building
 MS 5—Room 5330, 5th-level Amphitheater, Medical Science Building

FIRST YEAR

LECTURES, RECITATIONS, AND LABORATORY COURSES

First Semester

	Mon.	Tues.	Wed.	Thurs.	Fri.
8-9	Micro. & Dev. Anat. Lec. EM	Biochem. Lec. MS 5	Micro. & Dev. Anat. Lec. EM	Biochem. Lec. MS 5	Micro. & Dev. Anat. Lec. EM
9-10	Micro. & Dev. Anat. Lab. EM	Biochem. Conf. Labs. MS 4	Micro. & Dev. Anat. Lab. EM	Biochem. Conf. Labs. MS 4	Micro. & Dev. Anat. Lab. EM
10-11		* First Aid † Fr. Clin. HA		Med. Psych. MS 5	
11-12		Psych. MS 5			
1-2	Gross Anat. EM	Gross Anat. EM		Gross Anat. EM	Gross Anat. EM
2-3	Gross Anat. Lab. EM	Gross Anat. Lab. EM		Gross Anat. Lab. EM	Gross Anat. Lab. EM
3-4					
4-5					

* First eight weeks
 † Second eight weeks

Second Semester

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
8-9	Gross Anat. EM	Biochem. Lec. MS 3		Biochem. MS	Gross Anat. EM	
9-10	Gross Anat. Lab. EM	Biochem. Lab. MS 4		Freshman Clinic HA	Gross Anat. Lab. EM	
10-11						
11-12	Physiol. EM		Physiol. EM	Physiol. HA	Physiol. EM	
1-2	Physiol. Lab. EM	* Micro. & Dev. Anat. EM	Physiol. Lab. EM	Biochem. MS 5	* Micro. & Dev. Anat. EM	
2-3		* Physiology Lab. EM			* Physiology Lab. EM	
3-4						
4-5						

* First half of second semester Micro. & Dev. Anat. Second half of second semester Physiology Lab.

Note: Individual schedules will be given to each student which may indicate slight changes in the listed schedules.

SECOND YEAR

LECTURES AND RECITATIONS

First Semester

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
8-9	Path. MS 3	Phys. Diag. HA 1st day only A-UHW B-VAHW	Path. MS 3		Path. MS 3	
9-10	Pharm. MS 5		Pharm. MS 5	Psych. MS 5	Phys. Diag. Lec. HA	
10-11	Micro. MS 5		Micro. MS 5	Micro. MS 5		
11-12	* Genetics MS 5	Phys. Diag. Lec. HA	* Genetics MS 5	Phys. Diag. Lec. HA		
1-2	Micro. EM	Neuroanat. Neurophysiol. EM	Micro. EM	Neuroanat. Neurophysiol. EM	Phys. Diag. A-UHW B-VAHW	
2-3		Neuroanat. & Neurophysiol. Lab. EM	Micro. Lab. EM	Neuroanat. & Neurophysiol. Lab. EM		
3-4						
4-5						

* First ten weeks

Second Semester

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
8-9	Path. MS 3	Pharmacol. MS 5	Path. MS 3	Pharmacol. MS 5	Path. MS 3	Clin. Lab. Diag. 1/2 Class & Clin. Sci. Sec. 1/4 Class
9-10			Clin. Lab. Diag. 1/2 Class & Clin. Sci. Sec. 1/4 Class		Prev. Med. Lec. MS 3	
10-11	Clin. Sci. Conf. MS 3	Pharmacol. Lab.		Pharmacol. Lab.		
11-12	*Clin. Lab. Diag. Lec. MS 3				*Clin. Lab. Diag. Lec. MS 3	
1-2	Path. Lab.	Prev. Med. Lec. MS 3		Prev. Med. Lec. MS 3	Path. Lab.	
2-3		Clin. Lab. Diag. 1/2 Class & Clin. Sci. Sec. 1/4 Class	Path. Lab.	Clin. Lab. Diag. 1/2 Class & Clin. Sci. Sec. 1/4 Class		
3-4						
4-5						

*For the second eight weeks of the semester 11:00 to 12:00 on Monday and Friday will be assigned to the course on History of Medicine.

THIRD YEAR

Section schedule:

	June 8-Aug. 30	Aug. 31-Nov. 22	Nov. 23-March 14	March 15-June 5
Medicine	A	B	C	D
Pediatrics	D	A	B	C
Surgery	C	D	A	B
Short Sections	B	C	D	A

Lecture Schedule

Lectures in the areas of medicine, surgery, obstetrics and gynecology, neurology, pathology, and psychiatry will be scheduled, as a whole class exercise, at 1 P.M. each day, Monday through Friday, throughout the year. In addition, lectures will be given in anesthesiology, epidemiology, industrial health, and medical jurisprudence each Saturday at 10 and 11 A.M.

Schedule of short sections EACH period:

	Mon.	Tues.	Wed.	Thurs.	Fri.
8:00-10:00	*Oto. Hosp.		Oto.-1st 6 wks. Ophth. 2nd 6 wks.	CPC	*Ophth. OPB
10:00-11:00	*Derm. Hosp.	*Psych. CPH Aud.	*Phys. Med. Hosp.	Psych.	Derm.
11:00-12:00	*Neuro. Hosp.				Neuro.
	(12:00-1:00 Lunch)		(1:00-2:00 Lecture)		
2:00- 4:00	*Ob.-Gyn. Women's	*Radiol. Hosp.	Ob.-Gyn.	Radiol. (1st 8 wks.)	Ob. - Gyn. (1st 6 wks.)

* Place of first meeting, others to be announced by departments.

Those students assigned to Medicine, Pediatrics, and Surgery clerkships will be responsible to the departments concerned for the full time period, including what might be vacation days. It is the prerogative of the departments to set any necessary rotation schedules.

FOURTH YEAR

The curriculum of the fourth year has been revised in light of the more clinically-oriented third year. The senior year is a twelve-month program divided into quarters, during which one half of the class will rotate through the various clinical services of the hospital, one quarter will be on a selective study period under the guidance of this or a surrogate faculty, and one quarter will be on vacation. The clinical rotation will be in a six-month block and the selective study-vacation period will be another six-month block.

The objective of this program is to further develop the student's clinical knowledge and abilities and, in the selective period, to give him the opportunity to explore in depth a phase of his studies which interests and stimulates him.

SUMMARY OF ENTIRE CURRICULUM BY HOURS — 1964-65

Subject	Lectures	Laboratories and Sections	Total Hours
<i>First Year</i>			
Human Gross Anatomy	96	256	352
Microscopical and Developmental Anatomy ..	64	160	224
Biological Chemistry	64	160	224
First Aid	8		8
First Year Clinic	24		24
Physiology	64	192	256
Psychiatry	48		48
Total hours instruction, 1st year	<u>368</u>	<u>768</u>	<u>1,136</u>
<i>Second Year</i>			
Internal Medicine	80	200	280
Genetics	20		20
Medical History and Philosophy	16		16
Microbiology	80	96	176
Neuroanatomy—Neurophysiology	32	96	128
Pathology	96	144	240
Pharmacology	64	96	160
Psychiatry	16		16
Public Health and Preventive Medicine	48		48
Total hours instruction, 2d year	<u>452</u>	<u>632</u>	<u>1,084</u>

Subject	Lectures	Laboratories and Sections	Total Hours
<i>Third Year</i>			
Internal Medicine	55	456	511
Surgery	48	456	504
Pediatrics and Communicable Diseases	24	456	480
Neurology	24	24	48
Obstetrics and Gynecology	48	60	108
Pathology	25	24	49
Psychiatry	16	48	64
Anesthesiology	12		12
Dermatology	24		24
Epidemiology	16		16
Industrial Health	16		16
Medical Jurisprudence	16		16
Ophthalmology		32	32
Otorhinolaryngology		36	36
Physical Medicine		24	24
Radiology		40	40
Total hours instruction, 3d year	<u>324</u>	<u>1,656</u>	<u>1,980</u>
<i>Fourth Year</i>			
Internal Medicine		220	220
Obstetrics and Gynecology		220	220
Surgery		220	220
Dermatology		80	80
Neurology		80	80
Ophthalmology		80	80
Otorhinolaryngology		80	80
Psychiatry		80	80
Senior Clinical Science		22	22
Senior Selective		480	480
Total hours instruction, 4th year	<u> </u>	<u>1,562</u>	<u>1,562</u>

Total hours of instruction per student in four year curriculum—5,762

SUMMER SESSION

A student in good standing may elect, in the summer session, required courses for the following year, and the grades obtained will be averaged with those of the next session. This is not permitted for students having deficiencies unless approved in writing by the Dean or Assistant Dean. Students accepted for admission to the Medical School are not encouraged to take required first-year courses the summer preceding their first enrollment in the fall. In fact, special permission from the Dean or Assistant Dean is required in order to do this.

Most work offered in the summer session is equivalent in method, character, and credit value to similar work of the academic year. *A student can-*

not, however, shorten his residence in the School by attending one or more summer sessions, since the legal requirements of the state of Michigan for the degree of Doctor of Medicine prescribe four years' attendance upon medical lectures during the regular session. Unless unusual circumstances are present, students accepted for admission to the Medical School will not be admitted to required Medical School courses the summer prior to their entrance into the Medical School.

The courses are of six or eight weeks' duration depending upon the nature of the work and are listed in detail in the University's Summer Session *Announcement*. These courses include:

1. Most of the laboratory and some of the lecture courses of the first and second years
2. Some of the demonstration courses of the third year
3. Certain of the clinical courses of the fourth year

Any one of the summer courses announced may be withdrawn at the option of the instructor if fewer than eight students make advance application for it.

REQUIREMENTS FOR ADMISSION

Medical student applicants shall present a letter from the Dean of the school last attended, stating that the applicant is qualified to pursue the courses to be elected. Transcripts of record should not be sent. *This letter, sent in duplicate, shall state clearly whether the applicant is at present in good standing in the medical school in which he is in attendance. The letter should be sent to the Dean's office, Medical Science Building, with a copy to be sent to the appropriate departmental chairman.*

PROCEDURE FOR ADMISSION

A detailed description of courses offered during the summer session is given in the Summer Session *Announcement*, which is published each year and will be sent without charge upon request.

The applicant should:

1. Request an application form from the department in which he is interested. *This form is to be used only by students enrolled officially in this School or in other medical schools.*

A prospective enrollee in the summer session of some other school of the University, such as the Graduate School, School of Dentistry, or College of Literature, Science, and the Arts, must comply with specific requirements of each division.

2. Execute application forms in triplicate, returning all three copies directly to the chairman of the department in which instruction is desired. *If applicant intends to take courses in two or more departments, a separate application form in triplicate should be sent to each department.*

The original application with approval or disapproval by the departmental chairman will be returned to the applicant as soon as possible. Accepted applicants should present the approved application form to the Medical School office at time of registration.

3. The letter from the Dean should be made in *duplicate*, the original to be mailed directly from the office of origin to the Medical School Office, and the carbon copy to the chairman of the department.

The office of the Medical School will be open for registration and that of the University Cashier for payment of fees on Thursday, June 18 and Friday, June 19, as well as the opening days of the session. Fees for the six- and eight-week summer session will be announced.

The process of enrollment is as follows: first, enroll in the Medical School Office, Medical Science Building; second, pay fees at the Cashier's Office; third, report for courses as scheduled.

Students registering for medical courses that they expect to apply toward a medical degree must register in the Medical School.

Advancement and Promotion

The advancement of a student from one year of study to the next, and the recommendation for graduation, is made by action of the faculty through its Promotion Board. The Promotion Board can, at its discretion, approve advancement, require the student to repeat all or part of a year's work, refuse further registration, or take whatever other action it may deem appropriate in an individual instance. The student may petition the Promotion Board to reconsider its decision.

The degree Doctor of Medicine is conferred upon students who have completed satisfactorily the full four-year medical curriculum and who, in the judgment of the faculty, are of fit moral character, are twenty-one years of age or over, and have discharged all financial obligations to the University. Students admitted with advanced standing must have completed, at the minimum, the last two years of the curriculum in this School.

The degree Doctor of Medicine is conferred on each graduating student at the Final Exercises in June. Consequently, each individual is expected to be present in person to receive his degree.

INTERNSHIPS

The internship begins only after all requirements for graduation have been met. Every effort is made through counseling to assist senior students in obtaining desirable internships. Students are expected to participate in The National Intern Matching Program.

Graduates and Postgraduates

POSTGRADUATE TRAINING

Graduates of approved medical schools wishing to pursue special postgraduate studies may enroll, without becoming candidates for a degree, in the Department of Postgraduate Medicine. A list of courses is given in detail elsewhere in this *Announcement*. Applicants should correspond directly with the chairman of the Department of Postgraduate Medicine, University Hospital, Ann Arbor, Michigan.

GRADUATE INSTRUCTION IN THE BASIC MEDICAL SCIENCES

College graduates interested in study in the basic medical sciences (anatomy, biochemistry, microbiology, pathology, pharmacology, and physiology) enroll in the Graduate School rather than the Medical School. These include candidates for M.S. and Ph.D. degrees in these fields. Further information about these courses of study may be obtained from the office of the Horace H. Rackham School of Graduate Studies, from the *Announcement* of that School, and by communicating directly with the departmental chairman in the field of interest.

GRADUATE INSTRUCTION IN CLINICAL SCIENCES

Advanced teaching of medical graduates in the clinical fields consists largely of residency training programs in the clinical specialties at the University Hospital. Inquiries about residencies should be sent directly to the appropriate departmental chairman. Additional graduate training programs, including some of a more general type, are described in the sections on Postgraduate Medicine (pages 77 and 82).

M.S. and Ph.D. degrees are given for graduate work in some of the clinical fields through the Horace H. Rackham School of Graduate Studies. These programs are arranged by the departments concerned in conjunction with the Graduate School.

Scholarships and Financial Aid

Several different types of financial assistance have been made available to medical students, partly through the generosity of alumni and other friends of the School, and partly through appropriations made by the Regents of the University, in recognition of the fact that scholarship funds serve a worthy purpose by assisting in the education of persons of superior ability but limited means. The different types of financial assistance for medical students include scholarships for beginning students, scholarships for students entering their second, third, or fourth years, prize awards, grants-in-aid, short-term and long-term loans.

Three types of scholarships are available. The first of these—Merit Scholarships—are awarded on the basis of scholastic ability and need to entering freshmen on recommendation of the Admissions Committee. Applications should be made in writing to the Office of the Dean, prior to January 4, preceding matriculation. The number and amount of these scholarships are determined according to the funds available but, in general, they amount to one year's resident tuition. Merit Scholarships are automatically renewed throughout the entire four years of Medical School as long as the student maintains a minimal academic average of 3.0 and no nonacademic difficulty is encountered. The second type of scholarship is the Departmental Scholarship. Each department of the Medical School may award one scholarship per year in the amount of one semester's in-state tuition to a recipient of their choice who has shown outstanding achievement, providing the student has not received a Merit Scholarship. Finally, there are Dean's Merit Scholarships which are awarded strictly on the basis of academic achievement to the top five students of the freshman, sophomore, junior, and senior classes. Each student so designated receives a \$100 award.

Grants-in-aid are awarded twice annually upon formal application by the student. In reviewing the large number of applications, consideration is given to the student's scholastic standing, need, and accumulated indebtedness. Students applying for grants-in-aid are requested to submit a loan application simultaneously. If the amount awarded under the grant-in-aid is not sufficient, the remainder of the amount required may be obtained through a University loan. In general, grants-in-aid are awarded in the amount of one semester's in-state tuition.

Loan funds presently available are sufficient to assist needy students in the full amount of their tuition. These loans are granted at low interest rates and are repayable five years from the date they are granted. To become eligible for a University loan, the student must be registered in the Medical School, complete the appropriate application form, and obtain an appointment with his Class Mentor for interview. Loan applications are reviewed four times during the academic year. It is assumed by the Student Aid Committee that each student requiring financial assistance will engage in appropriate long-term planning and that

requests for emergency loans will be few. Following the interview with the Class Mentor, the application is referred to the Student Aid Committee and subsequently forwarded to the University loan office for final action. The amount of the loans granted varies according to circumstances but, in general, will not exceed \$1,000 per year per individual. Students, especially those with families, should not rely upon the University for funds to maintain their living expenses.

In general, it is assumed by the Admissions Committee that most students entering Medical School will have an adequate financial program planned to permit them to complete the freshman year. First-year students are discouraged from outside work until they have demonstrated their ability to carry the academic program. Upperclassmen may undertake part-time work in the University area as long as they are in good scholastic standing.

AWARDS AND PRIZES

The Rollo E. McCotter award is given annually to the medical student with the highest standing in his class during his first year in the Medical School.

The Carl V. Weller award goes to a second year student of high scholastic standing.

Galens scholarships are awarded annually to students on the basis of scholastic achievement and need.

The Sternberg Memorial Medal is awarded each year to the student in the Medical School who has the best record in the subject of preventive medicine.

The Borden Undergraduate Research Award is given annually to that member of the graduating class whose research in medicine during any year while enrolled in the Medical School is adjudged to have been the most meritorious of those similarly eligible.

RESEARCH FELLOWSHIPS

A number of fellowships are granted annually to undergraduate medical students of proven ability to permit them to do medical research during selective and vacation periods. These fellowships are assigned at the request of a sponsoring member of the faculty.

The United States Public Health Service sponsors a number of student research fellowships to support work done by students on a part-time basis throughout the academic year.

PROFESSORSHIPS AND LECTURESHIPS

Elizabeth H. Bates Bequest. In 1898 Doctor Elizabeth H. Bates of Port Chester, New York, left her estate to the Medical School in recognition of its accomplishments in providing medical education for women. The title of Bates Professor of Diseases of Women and Children has been given to the chairman of the Department of Obstetrics and Gynecology.

Galens Lectureships. Established by the Galens Honorary Medical Society, these lectureships provide annually for a week-long visit and lecture by an outstanding medical authority.

Dr. William J. Mayo Lectureship. Established in 1924, this is an annual lecture in the field of surgery.

Roger S. Morris Lectureship in Medicine. Established in 1939 by bequest of Mrs. Victoria Morris, widow of Professor George S. Morris, Ph.D. (hon.) '81, a member of the faculty of the University from 1870 until 1889, as a memorial to their son Roger S. Morris, A.B. '00, M.D. '02, a member of the Medical faculty from 1903 to 1906. The gift is to be accredited to Mrs. Victoria Morris and to Ethel Celle Morris, and the income is to be used annually to provide lectureships in the Medical School of the University.

Dr. Max M. Peet Lectureship. An annual lecture in neurosurgery and the allied fields established in 1948.

Dr. Frank N. Wilson Lectureship. Established in 1940, this is a lecture in cardiology.

Dr. John Alexander Lectureship. An annual lecture relating to some aspect of thoracic surgery, established in 1956 and sponsored by the members of the John Alexander Society.

RESEARCH GRANTS

The Medical School has been favored by an increasingly large number of research grants provided by a wide variety of individuals and organizations. Although research cannot be judged in monetary terms, it is of interest that during the 1962-63 fiscal year gifts and grants totaling more than \$5,000,000 were received by the Medical School for research.

Honor System

Enrollment in the University carries with it obligations in regard to conduct, not only inside but also outside the classroom, and all students are expected to be a credit both to themselves and to the University. They are amenable to the laws governing the community as well as to the rules and orders of the University and University officials and are expected to observe the standards of conduct approved by the University. A student who fails to observe these principles of conduct or who conducts himself in such a manner as to make it apparent that he is not a desirable member of the University will be liable to disciplinary action.

The principles inherent in the honor system as applied to examinations in the Medical School are applicable also to all activities of the student as outlined by the Code of Ethics. For the student body the honor system expresses an acceptance of the students' own responsibility for the education and development of future physicians, who will show a high degree of personal and professional integrity. For the faculty it expresses acceptance of the medical students' desires to establish the highest concepts of honor and personal integrity and to maintain these concepts during their connection with the Medical School and throughout their practice as physicians.

These ideals are pointed out to the student at the beginning of his Medical School career and continually re-emphasized throughout it. Upon registration in the Medical School, each student must signify in writing that he has familiarized himself with the Code of Ethics for Students and that he has read the Rules for the Conduct of Examinations under the Honor System and that he agrees to abide by them during his connection with the School. He reviews this pledge on each major examination by signing two separate pledges:

I have neither given nor received aid on this examination,

Signed

I have seen no one give or receive aid on this examination,

Signed

It follows that there are two basic implications of the honor system as applied to examinations. First, it assumes that the student has such personal integrity as neither to be dishonest himself nor to encourage others to be dishonest. Second, it implies that the same integrity which prevents the student himself from being dishonest compels him to report any violation of the honor system which he may observe during an examination, and that failure to do this is tantamount to cheating on his own part. The responsibility of the individual student to support the honor system by reporting violations of it parallels the responsibility of the individual physician to maintain the high medical standards of his profession by persistent efforts to eliminate unethical practices.

The honor system is administered by an Honor Council composed of representatives from each of the four Medical School classes. The respective members of the Council from each class will give advice on all problems arising relative to the conduct of examinations or the interpretation of the honor system. All violations should be reported promptly in a written statement to the Honor Council. Any member of the Council, regardless of his class, may receive such a statement. In reviewing cases of an especially serious nature, the Honor Council may augment its composition by the addition of a senior member of the faculty to act as a representative of the Dean of the Medical School.

Description of Courses

The Roman numeral after the title of a course indicates the semester in which it is given: the fall semester—I, the spring semester—II, summer session—S.S. The italic numeral enclosed in parentheses indicates the number of hours credit for the course: (3) denotes three hours credit.

The required courses for the students in medicine are designated by an asterisk (*).

ANATOMY

Professor Russell T. Woodburne, *Chairman*

Professors Baker, Barry, Dempster, Evans, and Pliske

Associate Professors Enlow, Huelke, Kahn, Lauer, and Oelrich

Assistant Professors Beaudoin, Conklin, Dewey, Kramer, Maynard, Moosman, Sippel, and Votaw

Instructors Beckering, Burdi, and Strachan

Illustrator Brudon

Technical Assistants Marsh, Porter, Smith, and Ternak

Although the first medical school class entered the University in 1850, a medical building and a first Professor of Anatomy were ready in 1849. Dr. Moses Gunn, a local physician and surgeon, was appointed Professor of Anatomy in July of that year. In 1854 Dr. Gunn was also appointed Professor of Surgery and so relinquished the chair in Anatomy to Dr. Corydon La Ford. Dr. Ford held the professorship until 1894, developing a legendary reputation for his teaching ability and his anatomical knowledge. Later departmental chairmen—James Playfair McMurrich (1894–1907), George Linus Streeter (1907–14), Gotthelf Carl Huber (1914–34), and Bradley M. Patten (1935–58)—in addition to being accomplished teachers, made outstanding contributions to the newer scientific anatomy.

The staff of the department has increased with the enlargement of the student body, the development of paramedical courses, and the increase in complexity

of the subject matter. The present staff includes twenty-five full-time professional anatomists and a somewhat greater number of research, technical, and clerical assistants. The department serves the University as a whole, offering training to students in medicine, dentistry, nursing, physical therapy, physical education, and other curriculums. Postgraduate medical and dental courses are offered, and emphasis is placed on graduate training in anatomy and for allied disciplines.

The Department of Anatomy takes pride in its tradition and its continuing reputation for excellence in teaching and at the same time accepts an obligation for the development and refinement of knowledge. Thus, research represents a challenging responsibility and a substantial effort by the faculty. Research opportunities offered to students and developed by the faculty exist in all aspects of anatomy and include biomechanics, electromyography, electron microscopy, enzymology, embryology, endocrinology, hematology, histology, histochemistry, neuroanatomy and neurophysiology, organ and tissue culture, oxidative metabolism, and other aspects of morphology.

Some 41,000 square feet of laboratory and office space in the East Medical Building is available for teaching and research. Physical apparatus includes student and research microscopes, microprojectors, photomicrographic apparatus, electromyographic recording equipment, electron microscopes, tissue sectioning machines, and a considerable variety of equipment items supporting histochemical, tissue culture, oxidation, embryological, and morphological studies. Extensive neurological and embryological slide collections developed over the years are major resources for research and special studies in the department and are available also to scientists of other departments and institutions.

Teaching fellowships and traineeships are available for graduate students in human anatomy.

COURSES FOR OTHER THAN MEDICAL STUDENTS

The needs of students in other departments of the University for work in various phases of anatomy are recognized in the following courses. Premedical students will not be admitted to these courses; but, with permission from the staff member in charge of the course, other undergraduate students majoring in departments in which the work is related to anatomy may be accepted.

200. Anatomy and Physiology for Nursing. S.S., MTuWThF 8-11:30. (5) KRAMER and assistants.

Required of all nursing students. Not open to others except by special permission. The gross and microscopic anatomy of the human body and the functions of its parts are systematically studied. By means of dissection and prepared specimens all systems of the body are considered from the standpoint of both their intrinsic organization and their relation to the body as a whole. During the study of each system, demonstrations of microscopic structure, motion pictures, and other aids are used to supplement the lectures and the laboratory work.

320. Anatomy and Physiology for Dental Hygiene. I, TuThS 9-12. (5) KRAMER, LAUER, and assistants.

Required of all dental hygiene students. Not open to others except by special permission. The gross and microscopic anatomy of the human body and the functions of its parts are systematically studied. Special emphasis is placed on the structures of the head and neck and their relations to the teeth and oral cavity. During the study of each system, demonstrations of microscopic struc-

ture, motion pictures, and other aids are used to supplement the lectures and laboratory work.

415. Anatomy for Physical Education. II, MWF 9-12. (4) BURDI and assistants.

A dissection course covering the various systems of the body with emphasis on neuromuscular co-ordinations and biomechanics.

430. Anatomy for Physical Therapy. S.S., MTuWThF 8-12. (5) Staff.

A systematic dissection of the human body accompanied by a study of the skeleton. Particular emphasis is placed on the interrelated systems of muscles, joints, and peripheral nerves and on the co-ordinating mechanism of the central nervous system. Microscopic demonstrations of pertinent tissues are presented.

505. Human Gross Anatomy for Dental Students. I, MTuThF 1-5. (7) DEMPSTER, HUELKE, and assistants.

Regular systematic course in gross anatomy required of first-year students in the School of Dentistry. The pattern of human structure is approached through a dissection of the body exclusive of the limbs and through X rays and surface anatomy. Following a dissection of the musculoskeletal parts of the trunk, the circulatory, respiratory, digestive, and other organ systems are studied. Special emphasis is given the neck, head, and oral regions. With the permission of the staff member in charge of the course, a limited number of qualified undergraduate students majoring in the biological sciences may be admitted.

525. Microscopical Anatomy for Dental Students. II, MWF 8-12. (6) PLISKE and assistants.

Regular course required of first-year students in the School of Dentistry. Special attention is given to the teeth and other structures of the oral region. The central nervous system is considered from the standpoint of the more important functional pathways associated with the oral cavity. There is embryological work on the face, jaws, and teeth. With the permission of the staff member in charge of the course, a limited number of qualified undergraduate students majoring in the biological sciences may be admitted.

705. Applied Anatomy of the Head and Neck. II, W 1-5. (2) DEMPSTER and assistants.

Required of all junior dental students. The anatomical relationships in the head and neck which are of importance in the practice of dentistry are stressed. The maxillofacial and pharyngeal regions are dissected in detail. Special consideration is given to the fascial planes in the head and neck relative to the spread of infections, to the mechanics of the jaw, to the palatal mechanism, and to the anatomy concerned with regional anesthesia.

REGULAR COURSES FOR MEDICAL STUDENTS

On the advice of the departmental committee in the field in which they are majoring and with the permission of the anatomy staff member in charge of the course, a limited number of graduate students in the biological sciences may be admitted to these courses.

***540. Human Gross Anatomy.** I and II continuously. I, MTuThF 1-5 and II, MF 8-11. (11) WOODBURN, EVANS, OELRICH, SIPP, and assistants.

Systematic course in gross anatomy required of first-year medical students. While the subject is approached from the regional standpoint, emphasis is placed upon the interrelationships of the organ systems. Offers to the student an opportunity for a thorough knowledge of the gross structure of the entire human body.

***550. Microscopical Anatomy. I, M 8-12, WF 8-11. (6) BAKER, BEAUDOIN, CONKLIN, DEWEY, ENLOW, KAHN, and assistants.**

Required of first-year medical students. The course is divided into two units; namely, histology and organology. They are taken up in the order listed.

***560. Developmental Anatomy. II (first eight weeks), TuF 1-5. (2) BARRY, BEAUDOIN, CONKLIN, DEWEY, ENLOW, KAHN, and assistants.**

Required of first-year medical students.

***640. Neuroanatomy-Neurophysiology. I, TuTh 1-5. (4) LAUER, KRAMER, VOTAW, MAYNARD, and assistants from Anatomy; RUTLEDGE from Physiology.**

Required of second-year medical students. The detailed structure of the nervous system and of the sense organs. Lectures and laboratory work based on gross and microscopic material of the human brain and spinal cord and of the sense organs.

805. Surgical Anatomy. (Hours and credit to be arranged). MOOSMAN from Anatomy; CHILD, BAILEY, and demonstrators from Surgery.

Offered to senior medical students in II and III Selective Periods. Covers regions of special interest in surgery, with lectures, laboratory dissections, and demonstrations.

ADVANCED AND RESEARCH COURSES

The Department of Anatomy offers the following courses for graduates in medicine who may desire to do special work in some particular phase of anatomy and for qualified medical or graduate students who are preparing for investigative work in anatomy or in closely allied fields. Students are admitted to these courses only on approval of the staff member in charge.

555. Anatomy and Function of the Vocal Apparatus. S.S. of alternate years; offered in 1965, MTuWThF 8-12. (4) Staff.

Especially designed for graduate students of speech. The nervous mechanisms involved in the control and integration of the speech processes receive special consideration. The laboratory work begins with the dissection of the head and neck and places particular emphasis on the vocal apparatus.

610. Topographical Anatomy. I and II. (2) OELRICH.

Open only to graduate students. A study of transverse and longitudinal sections of the body. Emphasis is placed upon the interrelations of the viscera and upon the relations of the important nerves, blood vessels, and lymphatics to deeper structures and to the important surface landmarks used in applied anatomy.

620. Applied Anatomy. I or II, to be arranged. (3) MOOSMAN.

Open only to graduate students. Each region of the body is approached from the standpoint of the structure and function of its component parts. The arrangement of the structures in each area is interpreted in the light of its significance for medicine and surgery.

630. Developmental and Microscopic Anatomy of the Temporal Bone. I in odd-numbered academic years. To be arranged. (2) Offered jointly by Anatomy and Otorhinolaryngology. LAWRENCE from Otorhinolaryngology.

Admission only on consultation. A series of lectures, demonstrations, and laboratory sessions on the anatomy of the embryonic and adult temporal bone. The lectures and demonstrations cover the method of removal of the temporal bone from autopsy material, procedures for histologic processing, and descrip-

tions of the membranous, neural, and bony tissue of the petrous area. The laboratory work consists of microscopic examination of serial sections of human adult and embryonic material.

710. Surgical Anatomy of the Head and Neck. II, W 1-5. (2) **DEMPSTER** and assistants.

The anatomical relationships important in the field of oral surgery, designed especially for graduates in dentistry. Includes a careful study of all the fascial planes of the head and neck, together with detailed dissection of the oral, pharyngeal, and nasal regions. The nerves and blood supply are considered functionally as well as anatomically, and special attention is devoted to the course of the nerves involved in regional anesthesia.

725. Ophthalmic Embryology. I or II, to be arranged. (1-4) **BARRY** from Anatomy and **FALLS** from Ophthalmology.

A summary of the principal steps in the embryology of the eye. The clinical application of developmental anomalies will be thoroughly stressed.

735. Morphology of Special Regions. I and II. (*To be arranged*) **WOODBURNE**, **DEMPSTER**, **BARRY**, **LAUER**, and **OELRICH**.

Special dissection of specific regions of the body as preparation for medical specialties or investigative work. If time permits and suitable material is available, the study may be extended to the microscopical and developmental anatomy of the region.

740. Seminar: Advanced Mammalian Neuroanatomy. *Prerequisite:* Anat. 640 or equivalent. II in even-numbered academic years. Hours to be arranged. (2) **VOTAW**.

Alternates with Anatomy 745. Consists of a series of seminars with major student participation. Designed to provide a more detailed and exact knowledge of the nervous system as a background for work in clinical fields or research in neuroanatomy, physiology, or psychology.

745. Comparative Vertebrate Neuroanatomy. *Prerequisite:* Anat. 640 or advanced courses in comparative anatomy or psychology. II in odd-numbered academic years. Hours to be arranged. (3) **VOTAW**.

Alternates with Anatomy 740. The phylogenetic development of the major nuclear masses and fiber paths of the nervous system as represented in typical vertebrates from cyclostomes to man, with particular emphasis on the relation between the behavior of the animal and the degree of specialization of its nervous system. In addition to lectures and laboratory work, each student is required to make a special study of some phase of this development and to present a report.

750. Advanced Human Embryology. *Prerequisite:* Anat. 540, 550, 560, and 640, or by consultation. II, odd-numbered academic years, last eight weeks. Hours to be arranged. (2) **BARRY**.

Attention will be centered on critical developmental stages of certain selected tissues and organ systems. The relation of timing to normal and abnormal development will be emphasized.

755. Tissue Culture Techniques. *Prerequisite:* Anat 550, 560, and Bact. 401 or equivalent. S.S. (4 for lec. and lab., or 2 for lec.). Offered jointly by Anatomy and Microbiology. **KAHN** from Anatomy and **MERCHANT** from Microbiology.

Admission only on consultation. Lectures, demonstrations, and laboratory work covering the methods of culturing embryonic and normal or abnormal adult tissues.

760. Mammalian Endocrinology. *Prerequisite:* Anat. 550, 560, or other adequate training in histology; organic chemistry and, preferably, biological chemistry. II in odd-numbered academic years. Hours to be arranged. (3 for lec. and lab., or 2 for lec.). BAKER and KAHN.

Admission only on consultation. Alternates with Anatomy 770. Lectures, discussions, and laboratory emphasizing the histochemistry of endocrine glands and the interrelationship of the metabolic and histological effects elicited by hormones. Operative technics, endocrine technical procedures, and microscopy of ductless glands to be emphasized in the laboratory. Prepares graduate students for research which involves the action of hormones.

770. Chemical Basis of Morphology. *Prerequisite:* Anat. 550, 560, Zool. 456, and Botany 807 and 808, or other adequate training in histology and biological chemistry. II in even-numbered academic years. Th, hours to be arranged. (3) DEWEY.

Admission only on consultation. Alternates with Anatomy 760. An analysis of the chemistry of cells in relation to their structure as revealed by light and electron microscopy.

810. Advanced Surgical Anatomy. II, Th 1:30-10 P.M. (2) WOODBURN.

Lectures and laboratory, for graduates in medicine. Provides a more detailed and exact knowledge of anatomy for surgeons and those preparing for specialty board examinations.

815. Special Techniques in Anatomy. *Open to graduate students in anatomy.* I or II, to be arranged. (1) WOODBURN, BAKER, BARRY, LAUER, OELRICH, and KRAMER.

An opportunity will be given, on essentially an apprentice basis, to learn the methods of preparing cadaver material for dissection and to become familiar with some of the newer methods in the preparation of anatomical museum specimens. On the microscopical side, the cutting and staining of sections, photomicrographic technique, the preparation of lantern slides, and reconstruction methods will be taught.

825. Proseminar in Anatomy. *Prerequisite:* Anat. 540, 550, 560, and 640. I and II, hours to be arranged. (2) Anatomy staff.

Advanced graduate students in Anatomy are required to elect four semesters of proseminar work. The course will be organized according to anatomical entities presented from various aspects by a combination of staff members and in an alternation of topics. Students will become familiar with the development of anatomical knowledge through examination of the literature and discussion.

910. Research in Neuroanatomy. I and II. (*To be arranged*) LAUER and VOTAW. Admission only on consultation. Affords to qualified students every possible opportunity to pursue research work on the vertebrate nervous system.

920. Research in Gross Anatomy. I and II. (*To be arranged*) WOODBURN, DEMPSTER, EVANS, and OELRICH.

Admission only on consultation. Offered as an introduction to original investigation in the field of gross anatomy and planned on an individual basis.

930. Research in Histology. I and II. (*To be arranged*) BAKER, DEWEY, and KAHN.

Admission only on consultation. Offered as an introduction to original investigation in the field of histology and microscopical anatomy and arranged on an individual basis.

940. Research in Embryology. I and II. (To be arranged) BARRY and CONKLIN.

Admission only on consultation. Offered as an introduction to original investigation along embryological lines and arranged on an individual basis.

SUMMER SESSION

Anatomy 200, 430, 540, 550, 555, 560, 610, 640, 735, 755, 910, 920, 930, and 940 will be offered in the summer session.

ANESTHESIOLOGY

Professor Robert Benjamin Sweet, *Chairman*

Associate Professor Corssen

Instructors Baird, Erdemir, Ericsson, Iizuka, Learned, and Steude

The responsibilities for the administration of anesthetics in the University Hospital originally was a primary function of nurse anesthetists. In 1938, Doctor Fennemore E. Davis became the Chief Anesthetist and remained at the University until 1941. In 1949 the Section was removed from the jurisdiction of the Department of Surgery and became a separate department of the Medical School under the direction of Doctor Warren K. Wilner, Assistant Professor and Acting Chairman.

The Department of Anesthesiology serves The University of Michigan through its activities in teaching, research, and patient service. With the co-operation of the Departments of Pharmacology and Surgery, it presents lectures to the undergraduate medical students emphasizing the relationship of this specialty to the basic sciences. A lecture series is presented to the junior medical students, and the Senior Elective in Anesthesiology is available. An active residency training program, approved by the American Board of Anesthesiology for two or three years, is offered for graduate training.

The departmental office suite, conference room, and clinical laboratory space are located in the Main Hospital adjacent to the operating room suite. The animal laboratory is located in the Kresge Medical Research Building. Opportunities for clinical or laboratory research are available to medical students on an elective basis, as well as to the third-year graduate residency staff.

THIRD YEAR

***731. Anesthesiology Lectures. I. (0.5) SWEET and staff.**

A series of twelve hours of lectures and demonstrations concerning the fundamentals of anesthesia. These cover the history of anesthesia, techniques, anesthetic agents, inhalation therapy, and the preoperative and postoperative care of the patient.

841. Senior Elective in Anesthesiology. SWEET and staff.

Offered as part of the selective period and of one, two, or three month's duration. The day is spent in the practical application of the administration of various anesthetic agents under supervision. Demonstrations, lectures, and conferences are presented as well.

BIOLOGICAL CHEMISTRY

Professor Halvor N. Christensen, *Chairman*

Professors Christman, Coon, Greenberg, Massey, Oncley, and Roseman

Associate Professors Abeles, Agranoff, Chandler, Hunter, Lands, Mason, Miller, and Riggs

Assistant Professors Dekker, Hogg, Jourdian, Levenberg, Nordby, Oxender, Robison, and Sugino

Instructor Foote

Teaching fellows and assistants

Dr. Victor C. Vaughan was designated as Professor of Hygiene and Physiological Chemistry in 1893. In the Medical School Catalogue of 1903 a Department of Hygiene, Bacteriology, and Physiological Chemistry was listed for the first time. A separate Department of Physiological Chemistry was instituted in 1922 with H. B. Lewis as Chairman, who served in this capacity until his death in 1954. In 1934, in recognition of the wider interests and services of the department, the name was changed to the Department of Biological Chemistry. In 1958 the department moved from its quarters in the West Medical building on the campus to its present location in the Medical Science building.

Laboratories. The laboratories are on the fourth level of the main wing of the new Medical Science Building. Medical, dental, and first-year graduate students work in seven laboratories, each of which accommodates up to thirty students. The medical class is divided into fourteen sections, each with a staff director; two such groups of fourteen students share a laboratory. Adjoining each laboratory is a conference room in which special instruments will also be used. Both laboratory and conference rooms are fitted for use of projection equipment.

Students of nursing and dental hygiene work in three thirty-two-place laboratories on the same floor. Group laboratories for more advanced graduate students are located on the fifth level. Here also are individual graduate student laboratory facilities adjoining the laboratories of the various staff members. These laboratories are equipped for essentially the full range of laboratory procedures relevant to biochemistry, including tracer instrumentation, large-scale preparations, bacterial fermentations, cold-room and warm-room facilities, and complete animal facilities. Medical and dental students are urged to visit these laboratories and to learn what work is being pursued.

Research by medical students. Capable medical students are encouraged to obtain research training by participating in the investigative activities of the department. Fellowships will be arranged when possible to support such work during summer and elective periods. Opportunities to participate in teaching are also available.

Postdoctoral research. The department welcomes to its laboratories young physicians and scholars who wish to gain or extend research experience, and encourages application for postdoctoral fellowships for this purpose. Investigation in either normal or pathologic metabolism can be undertaken.

The following fields are represented in current investigative activities: active transport of amino acids, metal ions, sugars, and other substances; biochemical events in bacterial virus synthesis; enzyme reaction mechanisms; enzymatic oxidation of hydrocarbons, enzymatic pathways in the breakdown of citrate, leucine isoleucine, valine, tryptophan and methylpurines; and in the synthesis of alkaloids, citrate, fatty aldehydes, glycolipids, nucleotides and polysaccharides; estrogen-enzyme interactions; glyconeogenesis from lipids; metabolic role of biotin

and of Vitamin B₁₂; metabolism of glycerolipids, of unusual amino acids in plants and animals, of peptides, of proline; parenteral amino acid nutrition; reactive sites of proteins; and proteolysis.

All laboratory courses in biological chemistry require a deposit of \$10.00 to cover cost of special material and breakage.

COURSES FOR NON-MEDICAL STUDENTS

102. Chemistry for Students in the Curriculum in Dental Hygiene. II. Lec. TuWThF 8; lab. TuTh 9-12. (5) MILLER and assistants.

Limited to students of dental hygiene. A review of the principles of inorganic chemistry and a study of organic and biological chemistry.

210. Organic and Biological Chemistry. I. Lec. MTuWTh 1; labs. M 2-5, Tu 2-5 or W 2-5. (4) MILLER and staff.

Designed for and restricted to students in the School of Nursing.

300. Diagnostic Biochemistry Lectures and Laboratory. *Prerequisite: Chemistry 211 and 346, and (except for Program in Medical Technology) permission of instructor.* II. Lec. MF 1-2:30; lab. M 2:30-5, Tu 1-4:30. (5) CHANDLER and staff.

515. Introductory Biological Chemistry. *Prerequisite: organic chemistry equivalent to Chem. 222 and 223.* I. Lec. MWF 8. (3) COON and staff.

516. Introductory Biological Laboratory. *Prerequisite: quantitative analysis, and to be preceded or accompanied by Biol. Chem. 515; permission of instructor.* I. Lab. TuTh 9-12. (2) LANDS and staff.

522. Biological Chemistry. II. Lec. MF 1-2:30; lab. M 2:30-5, Tu 1-4:30. (5) MASON, ROBINSON, OXENDER, and staff.

For students in the School of Dentistry.

COURSE FOR MEDICAL STUDENTS

***511. Biological Chemistry.** I. Lec. TuTh 8; conf. TuTh 9; II, lec. Tu 8-9, Th 1-2; conf. Th 8-10; lab. Tu 9-12, Th 2-5. (8) CHRISTENSEN and staff.

Fundamental course in biological chemistry for medical students, to whom the course is restricted. Included are lectures, student library and instructional assignments, laboratory studies on the principal metabolic materials and reactions, and special laboratory projects. Emphasizes the aspects of biochemistry fundamental to an understanding of human disease.

In addition Medical Students can arrange to pursue elective work in advanced courses as listed in the following section:

ADVANCED AND RESEARCH COURSES

577. Intermediate Biological Chemistry. *Prerequisite: Biol. Chem. 515.* II. Lec. MWF 8. (3) CHRISTMAN and staff.

600. Biochemical Techniques. *Prerequisite: Biol. Chem. 300, 511 or 515, and 516 and permission of instructor.* I and II (to be arranged) staff.

711, 712. Seminar. *Prerequisite: Biol. Chem. 515 and 516, or 511 and permission of instructor.* 711, I, Th 4; 712, II, to be arranged. (1 each) Staff.

807, 808. Advanced Biological Chemistry. *Prerequisite: Chem 225 and 226, and Biol. Chem. 515. Students presenting equivalent courses are requested to consult the instructor.* 807, I, lec. and conf. MWF 11; 808, II, lec. and conf. MWF 11. (3 each) GREENBERG and staff.

The metabolism of proteins, nucleic acids, lipids, carbohydrates, electrolytes, and vitamins; also enzymes, hormones, and other biochemical subjects. Subject to be considered in a given semester may be determined by inquiry.

929, 930. Research. I and II. (*To be arranged*) Staff.
Advanced work and research under direction.

SUMMER SESSION

Biological Chemistry 600, 711, and 929 are ordinarily offered. Course 511 may be offered on an informal basis to students of this Medical School requiring further study in this course.

DERMATOLOGY

Professor Arthur Covel Curtis, *Chairman*

Professor Harrell

Associate Professors Bernstein, Block, Taylor, and Wheeler

Assistant Professors Bocobo and Miedler

Instructors Kirk and Levitch

The first Lecturer in Dermatology (1890-1901) and later (1901-5) Lecturer in Dermatology and Syphilology was Dr. William Fleming Breakey. He became the first Professor of Dermatology and Syphilology in 1905 and retired in 1912.

Dr. Rufus Cole of the Rockefeller Institute in New York recommended Dr. Udo Julius Wile to Dean Victor L. Vaughan for this vacant position. He was appointed Professor and Chairman of the Department of Dermatology and Syphilology in 1912 and established the first University Hospital clinic for the training of dermatologists and syphilologists in the United States.

The Department of Dermatology is located on the second level of the Out-patient Building of the University of Michigan Medical Center. Inpatients are housed on the eighth level of the University Hospital, as well as on other floors. The number of beds is not fixed and may vary from 20 to 35. In addition to clinical training at the University of Michigan Medical Center, the student Health Service, St. Joseph Mercy Hospital, the Veterans Administration Hospital, and Wayne County General Hospital are all used for student and resident training.

Extensive facilities for research in mycology, microbiology, immunology, serology, biochemistry, and radioisotopes are present in the Kresge Medical Research Building and the School of Public Health. Special work in these fields is open to both medical students and residents.

Elementary Dermatology.

Elementary course of nine hours for nurses. KIRK.

THIRD YEAR

***731. Dermatology.** (1.5) CURTIS, HARRELL, TAYLOR, MIEDLER, and staff.

An introduction to the study of dermatology. One-fourth of the third-year class meets as a group twice a week.

Didactic lectures stress such fundamentals of dermatology as anatomy and physiology of the skin as well as the etiology of various cutaneous diseases. Patients and colored lantern-slide demonstrations are utilized to the fullest extent as aids in teaching.

FOURTH YEAR

***841. Senior Section in Dermatology and Syphilology.** (2.4) CURTIS, HARRELL, TAYLOR, MIEDLER, and staff.

All members of the senior class serve as clinical clerks in dermatology. One-tenth of the fourth-year class rotates through the wards, outpatient department, and Health Service for periods of two weeks. The entire day is spent in making ward rounds, discussing presented cases, doing laboratory work on the patients studied, and following the clinical course of patients being treated.

In the outpatient department both new and return cases are examined and presented to an instructor. Simple minor surgery procedures are demonstrated and mycological specimens studied.

ADVANCED AND RESEARCH COURSES

459. Fundamentals of Serology. *Prerequisite: Microb. 401 or its equivalent.* *Special arrangements during summer session.* (2) WHEELER.

Primarily for medical technicians.

543. Medical Mycology. (4) HARRELL.

For graduate students who have an interest in mycology. Deals with superficial as well as deep mycotic infections. Stock cultures of pathogenic fungi are utilized for laboratory work, and clinical material is demonstrated and studied as it becomes available.

544. Biochemical Research. (*Not to exceed 8 hours*) BLOCK, BERNSTEIN, and LEVITCH.

For graduate students working toward a master's degree. Special emphasis is placed on the biochemistry of the skin.

590. Investigations in Microbiology and Immunology. *Prerequisite: Microb. 401, 503, 624 or equivalent.* (*To be arranged.*) WHEELER.

600. Investigations in Mycology. (*Not to exceed 8 hours*) BOCOBO and HARRELL.

For graduate students working toward a master's degree. Emphasis is placed on pathogenic fungi and results of the investigations will be presented in the form of an acceptable thesis.

601. Biochemistry of Skin. (2) BERNSTEIN, BLOCK, and LEVITCH.

For graduate students who have an interest in the biochemistry of the skin. A review of the principles of biochemistry, with the major emphasis on skin metabolism.

745. Histopathology of Skin. (2) HARRELL, MIEDLER, and TAYLOR.

For graduate students in dermatology working for a master's degree in dermatology. All of the pathological changes in the skin associated with dermatological diseases are covered.

FORENSIC MEDICINE AND MEDICAL JURISPRUDENCE

***740. Forensic Medicine and Medical Jurisprudence. II. (I) PLANT** (Law School), Dr. MUEHLBERGER, and Medical School staff.

One hour a week, third year, sixteen weeks. Legal problems associated with the practice of medicine, contractual relations between physician and patient, privileged communications, licensure, malpractice, and reports required by law. Medical problems which enter into court actions are taken up: death by violence, identification of human remains, insanity, commitment, wills, use of X-ray plates. The coroner and medical examiner systems are discussed.

HUMAN GENETICS

Professor James van Gundia Neel, *Chairman*

Professors Schull and Spuhler

Associate Professor Levine

Assistant Professors Gershowitz, Krooth, Radding, Rucknagel, Shaw, Shreffler, and Tashian

Research Associate Post

Visiting Professor Fraser, fall semester, 1964

The Department of Human Genetics, established in 1956, is the newest of the departments of this Medical School and the first of its kind in this country. It is the successor of the Laboratory of Vertebrate Biology and the Institute of Human Biology at The University of Michigan. A Heredity Clinic for counseling on genetic problems has been in operation since 1942.

The department is housed at the Medical Center, in the Special Projects Research Building, the Radiation Laboratories Building, and the Lawrence D. Buhl Research Center for Human Genetics, the latter building becoming available to the department in 1963. Excellent facilities for research in the fields of population genetics, clinical genetics, biochemical genetics, immunogenetics, microbial genetics, cytogenetics, and somatic cell genetics are in use by faculty and students. Financial support for training qualified medical students during summer and elective periods and for predoctoral and postdoctoral fellowships is available.

COURSES FOR MEDICAL STUDENTS

***621. Medical Genetics. I, MW 11, first ten weeks. (I) FRASER and SHAW.**

A series of lectures on the principles of heredity in man, with particular reference to medical problems.

ADVANCED AND RESEARCH COURSES

514 (Anthro. 514). Human Genetics. Prerequisite: Zool. 405 or Botany 405, and some training in biometry. I. (3) KROOTH and RUCKNAGEL.

A survey of human genetics.

[637 (Anthro. 637). **Population Genetics**. *Prerequisite: a course in genetics. II.* (3) SPUHLER. (Given in alternate years with Course 638; omitted in 1964-65.)]

638 (Anthro. 638). **Genetics and Evolution**. *Prerequisite: a course in genetics. II.* (3) SPUHLER. (Given in alternate years with Course 637.)

A descriptive study of biological evolution with special emphasis on paleontological and neontological materials on the higher primates and man.

[639. **Methodology of Human Genetics**. *Prerequisite: calculus, Human Genetics 514, and permission of instructor. I* (2 or 3) SCHULL. Omitted in 1964-65.]

821, 822. **Seminar**. *Prerequisite: Human Genetics 514. I and II. (1 each)* Staff. Selected topics in human genetics.

834 (Anthro. 834). **Seminar in Human Biology**. *Prerequisite: permission of instructor. I.* (2) Staff.

841, 842. **Molecular and Cellular Genetics**. *Prerequisite: Zool. 405 or Botany 405, Biol. Chem. 515, 516, or permission of instructor. I and II. (3 each)* Staff.

Lectures on the structure and function of genetic elements, with special emphasis on hereditary mechanisms in bacteria and bacterial viruses, chemistry of genes and chromosomes, genetic control of cell functions, especially protein synthesis and immunogenetics.

900. **Research**. I and II. (*Credit to be arranged*) Staff.

SUMMER SESSION COURSES

401. **Theory and Techniques of Blood Typing**. TuThS 8-12. 4 weeks. (1) GERSHWITZ.

Lectures and laboratory concerning the principles and procedures underlying blood typing; primarily for students of medical technology.

900. **Research**. (*Credit to be arranged*) Staff.

INTERNAL MEDICINE

Professor William Dodd Robinson, *Chairman*

Professors Emeritus C. C. Sturgis and P. S. Barker

Professors Beierwaltes, Conn, Davenport, W. Davey, Duff, Fajans, Hoobler, Hubbard, F. D. Johnston, Magnuson, Mathews, Meyers, Neel, Pollard, Sheldon, Weller, and Zarafonitis

Associate Professors Bauer, Bishop, Bolt, Carr, Castor, Conway, French, R. A. Green, Henley, R. D. Johnson, Judge, Louis, Lovell, McLean, Matovinovic, Mikkelsen, Reynolds, Schoch, C. J. Tupper, Willis, Wilson, and J. Smith
Assistant Professors L. E. Bartholomew, Bercu, Bole, Cassidy, Clifford, Dodson, Floyd, Furstenberg, Good, Gracie, Knopf, Merchant, Ostrander, Parker, Penner, Power, Rovner, Schteingart, Sisson, Spencer, Wu, Zweifler; Clinical Assistant Professors Brandt and Reichert

Instructors Bandera, Bull, Cousineau, P. G. Davey, Earle, Fox, J. A. Greene, Hartsuff, R. F. Johnston, Joseph, Jourdian, Napier, Nelson, Pattec, Solomon, Stewart, Terr, Thompson, R. L. Tupper, Votaw, Vanselow, and Weber
Clinical Instructors Carbeck, Kabza, Payne, E. Smith, and Vreede

Fellows Anderson, B. Bartholomew, Berendsohn, Blumenthal, Brownlee, Cohen, Cummings, DeSwarte, DiGiulo, Dworkin, Galens, Ghannam, Guevin, Herring, Hines, Hosoda, Lucas, Nofal, Overstreet, Reyes-Leal, Rull, Saladin, Schrier, Sweet, Torres, Watson, Weiser, Yamate, and Lapco
Teaching Associates Baird, Bentz, Bornstein, Bushnell, Callies, Chipps, Dabich, Friedman, Guntsche, Hiss, Kelly, Krooth, Kucera, MacIntosh, Maher, Mowry, Myers, Pck, Paris, Proskey, Reed, Santinga, and Wheeler

FACILITIES OF THE DEPARTMENT

All clinical and laboratory facilities of the Department of Internal Medicine at the University Medical Center and at Ann Arbor Veterans Administration Hospital are available for education of medical students in Internal Medicine. These teaching resources include the medical wards, private floors, Medical Out-patient Department, the several subspecialty outpatient services as well as various laboratories and diagnostic units. In addition, certain teaching assignments are made to the Internal Medicine Service of Wayne County General Hospital.

Clinical teaching and learning are designed to correlate and integrate previously acquired knowledge of the basic sciences in the diagnosis and treatment of disease. In the second year courses, the student is instructed in the modern techniques of diagnosis and has the opportunity to apply these at the bedside and in the laboratory. During the third and fourth years patients serve as a primary stimulus for the student to acquire knowledge and experience in the science and art of modern medicine. Fundamental principles of medicine are developed by a combination of lectures, demonstrations, conferences, clinics and by assignment of patients in whose care the student assumes a responsible role.

COURSES FOR OTHER THAN MEDICAL STUDENTS

200. Internal Medicine.

An elementary course of twenty-five hours for nurses.

201. Internal Medicine.

A continuation of Internal Medicine 200. An elementary course of fifteen hours on tuberculosis given for nurses.

COURSES FOR MEDICAL STUDENTS

SECOND YEAR

***620. Physical Diagnosis.** I. Lec TuTh 11, F 9; clinics Tu 8-11, F 1-4, eight weeks. (4) BAUER, JUDGE, and staff.

In addition to lectures three times a week during the semester, each student receives practical work three hours twice a week for eight weeks.

In the practical work the class is divided into small sections which become acquainted with the practical features of physical diagnosis. The student, under close supervision of the instructor, is taught the features of the normal physical examination and the physical signs associated with disease.

***621. Clinical Laboratory Diagnosis.** *Prerequisite:* Microb. 401 and Biol. Chem. 121. II. (3) MEYERS and staff.

Given in the third and fourth section periods. The class is divided into two

sections—each section receives two hours of lecture and thirteen hours of laboratory work a week for eight weeks in the examination of normal and pathologic urine, gastric contents, feces, sputum, spinal fluid, blood, etc. Emphasis is placed on the interpretation and significance of the technical procedures taught. Desks and lockers with necessary equipment, except for microscope, hemoglobinometer, and hemacytometer, are provided for each student.

***622. Clinical Science. II. (2) BAUER, JUDGE, and staff.**

This course is a responsibility of all of the clinical departments. It is organized by the Department of Internal Medicine. During the second semester of the second year there is one hour of lecture each week and, in addition, each student devotes approximately six hours a week for a total of eight weeks to instruction in the bedside evaluation of patients. Students are assigned patients on whom they obtain a history and carry out a complete physical examination; the patients are then presented to and discussed with their instructor. The course is co-ordinated with the course in clinical laboratory diagnosis.

THIRD YEAR

***730. Medical Lectures (previously courses 730 and 731) (3.5) ROBINSON and staff.**

A total of 55 lectures are given during the year, as scheduled in the regular junior class lecture hour. The more important diseases are discussed comprehensively with the entire junior class, with the primary objective of providing the student with a frame of reference for further study in the library and at the bedside.

***731. Junior Section in Medicine. (7) ROBINSON and staff.**

Thirty-eight hours each week for twelve weeks. The third-year class is divided into four sections, each spending twelve weeks on the medical wards where students serve as clinical clerks. As new cases enter the wards, they are assigned in rotation to the clerks, who take the histories and make the physical and laboratory examinations under the guidance of the staff. Each student is held accountable for a knowledge of his patient and his course during the hospital stay. The student is expected to be familiar with the literature on the diseases with which he comes in contact. Regular exercises include instruction in nutrition and dietetics, laboratory procedures, medical chest problems, and joint conferences with the Departments of Radiology and Pathology.

FOURTH YEAR

***841. Senior Section in Medicine. (6) ROBINSON and staff.**

One-tenth of the senior class spends a section period of five weeks in the Department of Internal Medicine. The students are regularly assigned to the medical outpatient department where they are responsible for the initial history and physical examination, as well as the following of outpatients. In addition, outpatient experience and instruction is provided in allergy and certain subspecialties within the field of internal medicine.

***860. Offerings in the Selective Study Period. (15) ROBINSON and staff.**

Opportunities in the Department of Internal Medicine which can be selected during the three-month selective period in the senior year include clinical clerkships at Wayne County General Hospital and the University Hospital, and either clinical or laboratory experience in the subspecialties dealing with allergy, arthritis, the clinical radioisotope unit, endocrinology and metabolism, gastro-

enterology, the heart station, hypertension and renal disease, hematology, medical chest diseases, and medical epidemiology. Arrangements for a given position are made by applying to the staff member identified with the opportunity. The positions and duration of any experience are subject to change upon a mutual agreement of the student and faculty member.

GRADUATE WORK

601. Clinical Medicine.

A limited number of physicians may be admitted to the clinics, wards, and laboratory classes but cannot be received as clerks. Physicians who have had adequate training will be received as voluntary assistants and the facilities of the clinics opened to them for the study of definite problems. The equipment for investigation includes the hospital wards and outpatient departments, the clinical and chemical laboratories, and the heart station.

MICROBIOLOGY

Professor Walter James Nungester, *Chairman*

Professor Gerhardt

Associate Professors Blumenthal, Johnson, Merchant, Murphy, and Wheeler

Assistant Professors Garrison, Ludovici, and Whitehouse

Instructors Britt, Haines, Kirk, Paradise, and Talmadge

The Department of Microbiology was founded as the Department of Bacteriology in 1902 with Dr. Frederick G. Novy as the first chairman. Actually laboratory work was offered as early as 1889. Thus The University of Michigan was the first or possibly the second university in the United States to offer such a laboratory course to medical students. In 1963 the name of the department was changed to the Department of Microbiology. The department serves the University as a whole, offering training to students in medicine, dentistry, pharmacy, nursing, and medical and dental technology. Instruction is offered both to undergraduate and graduate students.

Slightly less than 30,000 square feet of laboratory and office space in the East Medical Building is available for teaching and research. Physical apparatus, including high-speed centrifuges, visible light, ultraviolet and infrared spectrophotometers, sonic equipment, radioactive equipment, fermenters, time-lapse microphotography, and chromatography equipment is available. Also modern chemical and microbiological facilities are in constant use by the staff and students for teaching and research in such fields as microbial physiology, metabolism, immunology, tissue culture studies, and general medical microbiology. Teaching assistantships and fellowships, as well as research assistantships and the F. G. Novy Fellowship, are available to students.

A laboratory fee is required of all students taking laboratory courses.

COURSES FOR UNDERGRADUATES

201. Elementary Medical Microbiology. *Prerequisite: Chem. 106.* I. Lec. TuTh 1-2 (2), lab. TuTh 3-5 (2) FEARNEHOUGH.

Lectures and laboratory work designed to illustrate important microbiological

principles and techniques applicable to medical problems. Required for dental hygiene students.

202. Elementary Medical Microbiology. II. Lec. and lab. MW 9-12. (3) BRITT and KIRK.

Lectures and laboratory work designed to illustrate important microbiological principles and techniques applicable to medical problems. Required for student nurses.

312. Microbiology for Pharmacy Students. Prerequisite: Chem. 223. II. Lec. TuTh 2-3, F 11-12 (3), lab. TuTh 3-5 (2) HAINES.

Lectures and laboratory. Principles and techniques of microbiology and immunology as related to the problems of the pharmacist.

401. General Microbiology. Prerequisite: Chem. 223. I. Lec. MWF 1-2 (3), lab. MW 2-5 (2) TALMADGE.

Lectures and laboratory. Introduction to the fundamental aspects of microbiology.

503. Pathogenic Microbiology for Medical Technicians. Prerequisite: Chem. 223. II. Lec. TuTh 1-2 (2), lab. TuThF 2-5 (3).

Lectures and laboratory. Principles of general microbiology with emphasis on pathogenic microbiology.

524. Immunology for Medical Technologists. Microb. 503 or equivalent. S.S. only. Lec. MTuWTh 1-2 (2), lab. MTuWTh 2-5 (2) WHEELER.

Lectures and laboratory in the principles and techniques of immunology and serology, including host defense mechanisms, antigen-antibody reactions, hypersensitivity and immunization, with particular emphasis on their application to medical technology.

COURSES FOR DENTAL STUDENTS

607. Microbiology for Dental Students. Prerequisite: Chem. 223. I. Lec. TuTh 9 (2) WHITEHOUSE.

Lectures in principles and techniques of microbiology and immunology with an introduction of their application to dentistry.

608. Microbiology for Dental Students. Prerequisite: Microb. 607. II. Lec. WF 1-2 (2), lab. WF 2-5 (2) WHITEHOUSE.

Continuation of Microbiology 607 with lectures and laboratory in principles and techniques of microbiology and immunology with an introduction of their application to dentistry.

COURSES FOR MEDICAL STUDENTS

611. Medical Microbiology. Prerequisite: Biochem. 511 or equivalent and introductory course in pathology. S.S. only. Lec. MTuWThF 10-12 (4) Staff.

Lectures and discussion of the principles and techniques of microbiology with particular emphasis on their application to medicine. Open to medical and dental students and, in special cases, graduate students and others with the necessary prerequisites with the permission of the Chairman of the Department.

***620. Microbiology and Immunology for Medical Students. Prerequisite: Biochem. 511 or equivalent. I. Lec. MWTh 10-11, MW 1-2 (5), lab. MW 2-5 (2) Staff.**

Lectures and laboratory on general microbiology and immunology. Other than

medical students may elect only if permission is granted by the Chairman of the Department.

COURSES FOR GRADUATE STUDENTS

401. General Microbiology. See page 50.

501. Orientation of Microbiology and Immunology. I. Lec. S 9-10:30 (1) NUNGESTER.

Limited to graduate students in microbiology. The objective of this course is to acquaint the student with major historical developments in microbiology and immunology through reading the original papers or translations of them. Each student is responsible for writing a paper in an assigned area and for presenting a paper to the class. In discussion an attempt is made to point out opportunities for further developments in the areas examined.

505. Pathogenic Bacteriology. *Prerequisite:* Chem. 223, Microb. 401 or equivalents. II. Lec. MW 1-2 (2), lab. MW 2-5 (2) PARADISE.

Lectures and laboratory work will stress the microbiology of infectious diseases, parasite pathogenicity, host resistance, immunology, and laboratory diagnostic procedures.

510. Pathogenesis of Infectious Diseases. *Prerequisite:* Microb. 401 or equivalent. II. Lec. MW 8-9 (2) NUNGESTER.

Lectures and discussions designed to develop an orientation towards infectious diseases, portal of entry of pathogens, spread within the host, anatomical, pathological, biochemical, and physiological changes resulting from the infectious processes.

[602. Viruses and Rickettsiae. *Prerequisite:* Microb. 624 or permission of instructor. II. Lec. TuTh 8-9 (2), lab. TuTh 9-12 (2). (Given alternate years. Omitted 1964-65)].

624. Immunology. *Prerequisite:* Microb. 505. I. Lec. TuTh 1-2 (2), lab. TuTh 2-5 (2) JOHNSON.

Lectures and laboratory on the fundamentals of immunology and serology, including host defense mechanisms, antigenantibody reactions, hypersensitivity and immunization.

651. Bacterial Physiology. *Prerequisite:* Microb. 401. II. Lec. TuTh 1-2 (2), lab. TuTh 2-5 (2) GERHARDT.

Lectures and laboratory. Study of the composition and function of bacterial cells.

658. Microbial Genetics. *Prerequisite:* Microb. 401 or permission of instructor. II. Lec. TuTh 1-2 (2), lab. TuTh 2-5 (2) TALMADGE.

Lectures on mechanisms on heredity in bacteria, viruses, yeasts, molds, protozoa, and algae.

705. Advanced Immunology. *Prerequisite:* Microb. 624. II. Lec. F 1-3 (2) JOHNSON.

A critical discussion by the instructor and the students of current advances in immunology.

714. Advanced Techniques for Microbiologists. *Prerequisite:* Microb. 410 and permission of instructor. II. S. 8-12 (2) BLUMENTHAL.

Lectures and laboratory. Techniques of value for microbiological research including such fields as glass blowing, spectrophotometry, chromatography, and isotope techniques.

755. Tissue Culture Techniques. *Prerequisite: Microb. 401 and Anat. 550 or equivalents.* S.S. only. Lec. MTuWThF 1-2 (2), lab. MTuWThF 2-5 (2). Offered jointly by Microbiology and Anatomy. MERCHANT from Microbiology and KAHN from Anatomy.

Lectures, demonstrations, and laboratory work covering the methods of culturing embryonic and normal or abnormal adult tissues. Admission only on consultation.

756. Microbial Metabolism. *Prerequisite: Microb. 401 and Biol. Chem 515.* 1. Lec. TuTh 1-2 (2), lab. TuTh 2-5 (2). BLUMENTHAL.

Lectures and laboratory. Presentation of principles and methods for study of bacterial metabolism.

RESEARCH COURSE

908. Research in Microbiology and Immunology. I, II, and S.S. (*Credit to be arranged*) Staff.

SEMINAR COURSE

912. Seminar. I and II. (*Credit to be arranged*) Staff.

SUMMER SESSION

Microbiology 524, 611, 755, and 809 are ordinarily offered.

NEUROLOGY

Professor Russell Nelson De Jong, *Chairman*

Professors Magee and Tourtellotte

Assistant Professor Jones

Instructors Bicknell and Ericsson

The history of the Department of Neurology dates from the year 1888 when Dr. William James Herdman, at that time Demonstrator in Anatomy, was appointed Professor of Diseases of the Nervous System. In 1890 his title was changed to that of Professor of Nervous Diseases and Electrotherapeutics, and from 1898 until his death in 1906, he was Professor of Diseases of the Mind and Nervous System and of Electrotherapeutics. In 1906, Dr. Albert M. Barrett was named Associate Professor of Neural Pathology and, in 1907, was made Professor of Psychiatry and Nervous Diseases. In that year Dr. Carl Dudley Camp was appointed Clinical Professor of Diseases of the Nervous System. A few years later the Departments of Psychiatry and of Diseases of the Nervous System separated, but the title of the latter was not changed to the Department of Neurology, with Dr. Camp as Professor, until 1920. Dr. Camp continued in charge of the department until his retirement in January 1950, when he was succeeded by Dr. Russell N. DeJong as Professor and Chairman of the Department. Interns were appointed to the department as early as 1912 and there has been an organized residency program since 1920.

The clinical facilities of the department include an inpatient service with an

average of 970 patients per year and an average daily census of 35. Also, some 6,000 outpatients are seen on the Neurology Service each year, as well as 1,200 inpatient consultations. There are special clinics for the study of multiple sclerosis and the convulsive disorders. The neurology laboratories in the Kresge Medical Research Building are equipped for detailed neurochemical investigations.

Teaching of neurology is carried out on the hospital wards, in the outpatient department, and in the amphitheater. In the junior year there is a series of didactic lectures on the common neurologic entities and the nervous system complications of systemic disease, and also a section course which stresses the neurologic examination and the correlation of neuroanatomy and neurophysiology with clinical neurology. In the senior section the student has intimate contact with patients both on the wards and in the outpatient department, and emphasis in teaching is placed on the exactness of diagnosis and treatment of the diseases of the nervous system.

200. Neurology for Nurses. DEJONG and staff.

Given in the curriculum of the School of Nursing. In a series of nine lectures and clinical demonstrations the various aspects of diagnosis and treatment of diseases of the nervous system are discussed.

THIRD YEAR

***730. Medical Lectures. II. (2) DEJONG.**

A series of didactic lectures on diseases of the nervous system, illustrated by the showing of patients and pathologic specimens. Three hours per week for 24 lectures.

***731. Junior Section in Neurology. (1) DEJONG and staff.**

A series of lectures and clinical sessions given three times a week for a period of eight weeks. The technique of the neurologic examination is presented in detail, and the correlation between neuroanatomy and neurophysiology and the findings in the neurologic examination, both in the normal patient and in the disease state, is stressed. The students also practice the elements of the neurologic examination under supervision.

FOURTH YEAR

***841. Senior Section in Neurology. (2-4) DEJONG and staff.**

Groups of approximately six students spend a period of two weeks in the Department of Neurology. This period is devoted to practical instruction in neurology. Students act as clinical clerks, both on the wards and in the outpatient department, and instruction is given by conference and discussion. The students take histories of patients and examine them under the supervision of the instructor. Special methods of treatment and examination are demonstrated.

GRADUATE COURSES

Graduate work is given in the department, leading to the degree Master of Science in Neurology. Requirements for this degree include specific courses in the department, as listed below, together with work in cognate fields and a thesis. Further details are given in the *Announcement* of the Horace H. Rackham School of Graduate Studies.

606. Neuro-ophthalmology. (1-2) DEJONG and HENDERSON.

A study of the essentials of neuro-ophthalmology in the diagnosis of both neurologic and ocular disease.

621, 622. Organic Neurology. (2) DEJONG, WESTERBERG, and MAGEE.

A study of the clinical methods of examination, and the diagnosis and treatment of organic diseases of the nervous system.

641, 642. Clinical Neurology. (3) DEJONG, WESTERBERG, and MAGEE.

The application of the fundamentals of neuroanatomy and neurophysiology to the neurologic examination and to the diagnosis and localization of disease of the nervous system.

761, 762. Anatomical Basis of Neurology and Neurosurgery. (2) DEJONG, with CROSBY (Anatomy), KAHN (Surgery), and HICKS (Neuropathology).

Correlates neuroanatomy with clinical neurology, neurosurgery, and psychiatry, stressing practical considerations and clinical applications.

781, 782. Research in Neurology. (1-3) DEJONG.

Arranged for graduates in medicine who are working toward an advanced degree in neurology.

OBSTETRICS AND GYNECOLOGY

Professor J. Robert Willson, *Chairman*

Professor Emeritus Norman F. Miller

Professors Behrman, Evans, and Riley

Associate Professors Gosling and Morley

Assistant Professors Ludovici and Anderson

Instructors Schneider and Forsythe

The Department of Obstetrics and Gynecology was established at The University of Michigan in 1850. The first University Hospital was opened in 1869 and the first lying-in ward was provided in 1888. In 1906 a maternity "pavilion," separate from the main hospital unit, was placed in use. This continued in operation until 1925 when the service moved again to a remodeled area in the old Eye, Ear, Nose, and Throat Building. This structure, in turn, served the department until 1950 when the present Women's Hospital was opened for obstetric inpatient and outpatient care and for the gynecologic inpatient service. Gynecology outpatient activity is carried on in the Medical Center Outpatient Building. Among the special features of the Women's Hospital Building is the well-equipped Reuben Peterson Memorial Research Laboratory which has continued to develop through the intervening years.

In 1961 the department assumed the additional responsibility for the operation of an obstetric and gynecologic service at the new Wayne County General Hospital. The addition of this service has served to double the volume of clinical activity required of the department and has provided a broader range of obstetric and gynecologic problems than was previously available. Additional clinical opportunities for both staff members and students have been provided through our association with Ypsilanti State Hospital and the Northville State Mental Hospital, both large institutions devoted to the care of mental patients.

The present facilities and organization provide a broad opportunity for clinical experience in every aspect of obstetrics and gynecology. The close integra-

tion of clinical services and the research programs of the department also provides a number of opportunities for investigation in a variety of areas of current interest.

NURSING COURSES

200. Obstetrics for Nurses.

An elementary course of nineteen hours in obstetrics given for nurses.

201. Gynecology for Nurses.

An elementary course of ten hours in gynecology given for nurses.

MEDICAL STUDENT COURSES: THIRD YEAR

***730. Obstetrics and Gynecology. I and II. (5) WILLSON, MILLER, BEHRMAN, EVANS, RILEY, MORLEY, GOSLING, ANDERSON, and instructors.**

Lectures. One hour each week throughout the year. Lectures in the theory of obstetrics and gynecology in preparation for the practical work on the wards of the hospital.

Obstetrics Section. Six hours each week for approximately eight weeks. This part of the course is designed to provide a foundation in the practical fundamentals of obstetrics. Both normal and complicated deliveries are demonstrated on the manikin, by movies, and on actual patients by use of the television connection between the delivery rooms and the class rooms. Small groups of students will spend time in the delivery rooms and on the obstetric inpatient service actually following individual patients during labor, delivery, and the immediate postpartum recovery period. This course serves to prepare students for a more active participation in patient care during the fourth year.

MEDICAL STUDENT COURSES: FOURTH YEAR

***841. Senior Section in Obstetrics and Gynecology. (6) WILLSON, BEHRMAN, EVANS, RILEY, MORLEY, GOSLING, ANDERSON, and clinical instructors.**

The senior clerkship extends over a period of five weeks and is divided between obstetrics and gynecology. Part of each group of students works in the Women's Hospital and the remainder at the Wayne County General Hospital.

The senior students assist the residents and the staff members in the care of obstetric patients during the prenatal period, during labor and delivery, and during the postdelivery period of hospital treatment.

They have a similar experience in the management of gynecologic patients: working in the gynecologic clinic, examining patients in the hospital, assisting at operations, and participating in postoperative care.

In addition to regularly scheduled departmental meetings daily teaching conferences are held with the senior students.

GRADUATE AND POSTGRADUATE COURSES

852(Path. 852). Pathology of the Female Genitourinary System. (1) ABELL, GOSLING, and staffs.

ELECTIVE OPPORTUNITIES AND RESEARCH

A variety of departmental programs can be arranged to provide an opportunity for clinical or laboratory research by interested and qualified medical students. These include endocrinologic aspects of gynecology and obstetrics, reproductive physiology, various problems in the physiology of labor, and specific problems in gynecologic cancer or gynecologic pathology. The close integration of clinical and laboratory services within the department makes possible a wide number of approaches to most problems.

Individual application for such elective opportunities should be made to the faculty of the department.

OPHTHALMOLOGY

Professor Francis Bruce Fralick, *Chairman*

Professors Falls, Henderson, and Alpern

Associate Professor Wolter

Clinical Assistant Professors Smillie and Cohan

Instructors Goldsmith, McWilliams, Petrohelos, and Roth

Teaching Associates Heyner, Davies, Hall, Knaggs, O'Keefe, Smith, and Thompson

The first instruction in ophthalmology at the University was given in March 1870, by Dr. George Frothingham, who held the title of Assistant Demonstrator and Prosector of Surgery. The Chair of Ophthalmology was not created until June 1875, when Dr. Frothingham was appointed Professor of Practical Anatomy and Ophthalmic and Aural Surgery. His title was later changed to Professor of Materia Medica and Ophthalmic and Aural Surgery. Dr. Flemming Carrow succeeded Dr. Frothingham in July 1889 as Clinical Professor of Ophthalmic and Aural Surgery and Clinical Laryngology and Ophthalmology and continued in that position until September 1904. At this time the Chair of Ophthalmology and Otolaryngology was divided, and Dr. Walter R. Parker was appointed Clinical Professor of Diseases of the Eye in September 1904, the title being changed to Professor of Ophthalmology in May 1905. Dr. Parker resigned in July 1932, to be succeeded by Dr. George Slocum, who occupied the Chair of Ophthalmology until his death on March 23, 1933. Dr. Slocum was succeeded by Dr. Francis Bruce Fralick, who still holds the chairmanship of the Department of Ophthalmology.

The Department of Ophthalmology is housed in the Outpatient building of the University Hospital. Adequate facilities are here provided for the ever-increasing clinical load which is utilized for both undergraduate and graduate teaching. These are further augmented by the clinical facilities offered by St. Joseph Mercy Hospital and Veterans Administration Hospital in Ann Arbor and Wayne County General Hospital in Eloise through which students and residents rotate. Ophthalmological research space is provided in the Kresge Medical Research Building and the Medical Science Pathology Building, as well as Veterans Administration Hospital.

RESEARCH BY MEDICAL STUDENTS

Research training is provided to interested and capable students in various fields in the department. Two undergraduate student fellowships for research in ophthalmology are available.

NOTE.—Ophthalmological lectures for junior student nurses are given for four hours every other month.

THIRD YEAR

***731. Junior Section in Ophthalmology. (1) FRALICK and staff.**

The junior class is divided into four sections. Each section is assigned to the Department of Ophthalmology for a period of 12 weeks with a total of 32 clock hours of instruction. The subject is covered by means of lectures and demonstrations concerning the diagnosis and treatment of the more common ocular diseases. Special emphasis is placed on those ocular diseases associated with general disease. Where possible, patients are utilized. Instruction is given in the use of the ophthalmoscope and other diagnostic instruments used in ophthalmic examination. Physiologic optics, anomalies of the motor apparatus, ophthalmic neurology, pharmacology, pathology, physiology, and microbiology are tied into the discussion of the ocular disease studied.

NOTE.—An ophthalmoscope will be required for every two students in both junior and senior courses.

FOURTH YEAR

***841. Senior Clerkship in Ophthalmology. (2.4) FRALICK and staff.**

Each section of six or more students spends 11 days in the Department of Ophthalmology. During this period instruction is given in the form of demonstration of clinic patients, ward work, informal lectures, and operative clinics. The students follow outpatients through the clinic, with instruction in proper history taking, the recording of visual acuity, external and funduscopic examination. The use of the ophthalmoscope is particularly stressed. Teaching ward rounds are made each day by the ward resident. Each student is given the opportunity to scrub in for one operative clinic during the week. A written list of all ocular diseases and procedures seen is kept by each student and he is examined for basic knowledge regarding these cases at the end of the week. This correlates his didactic study with clinical material. Major emphasis is placed upon the proper routine of clinical ocular examination and the value of proficiency with the ophthalmoscope.

A clinical conference is held each Wednesday at 8:15 A.M. where patients are presented by the students, and a seminar type of discussion is conducted by the staff and students.

a) Demonstration of Clinical Ophthalmology. FRALICK and staff.

Each section of students receives demonstration in external diseases of the eye and ophthalmoscope diagnosis. Clinical patients are assigned to the students, who are required to examine, make diagnosis, and designate appropriate treatment. These cases are then presented to the instructor in charge for discussion.

b) Ward Work. FRALICK and staff.

The newly-admitted hospital cases are assigned to the students for medical work-up. Their medical and ophthalmological conditions are then followed by

the students during their stay in the hospital. Bedside instructions are given on daily ward rounds.

c) *Operative Clinics.* MWF 8-10. FRALICK and staff.

During these clinics the small group of students is afforded ample opportunity to observe the operative technique employed on the cases they have previously examined and discussed in the clinic or on the ward. These surgical cases are then followed during their stay in the hospital through daily ward rounds.

d) *Senior Selective Study Period.* FRALICK and staff.

The Senior Selective Study Period is provided for interested students to spend six to twelve weeks full time in the Department of Ophthalmology pursuing research or clinical studies of interest to them.

OTORHINOLARYNGOLOGY

Professor Walter P. Work, *Chairman*

Professor Emeritus A. C. Furstenberg

Professors Lawrence, Bloomer, Gross, and Hawkins

Associate Professor McCabe

Clinical Assistant Professors Proctor and Ritter

Instructors Litton, Smith, and Boles

In 1904, the Department of Otolaryngology was founded as an entity in the Medical School under the direction of Clinical Professor Roy Bishop Canfield. One year later he was promoted to the rank of Professor of Otolaryngology.

Prior to this period of time ophthalmology and otolaryngology were taught in a combined curriculum by the distinguished physicians, Drs. George Frothingham and Flemming Carrow. Dr. Canfield organized a modern curriculum. Due to the continued expansion of the department, Dr. A. C. Furstenberg was appointed Assistant Professor in 1917. In 1932 the tragic death of Dr. Canfield, in an automobile accident, brought to a close his brilliant career. Dr. Furstenberg was appointed Professor and Chairman of the Department that same year by the Board of Regents, a position he held until 1958. Dr. Furstenberg was succeeded by Dr. James H. Maxwell, July 1, 1958. Dr. Maxwell continued the duties of Professor and Chairman until his death, June 2, 1960. Dr. Walter P. Work was appointed Professor and Chairman and assumed these duties in July 1961. In November 1961, by action of the Board of Regents, the department's name was changed to the Department of Otorhinolaryngology.

Personnel and physical and clinical facilities are available for medical and graduate students to obtain a broad-based training in the fundamentals of otorhinolaryngology. In addition, the new Kresge Hearing Research Institute has 19,000 square feet of laboratory space. Specially equipped for basic research in all phases of hearing, this facility serves in the training of medical, graduate, and postdoctoral students. Unique features are fourteen electrically shielded rooms, an anechoic chamber, vestibular centrifuges, an electron microscope, time-lapse photographic equipment, and electroacoustical equipment.

The sections of Audiology and Speech are housed in the outpatient offices of the department. These units are well equipped and staffed for the student to pursue study in both these fields in its clinical and research phases.

Ward duties, outpatient studies, and research facilities for senior medical students, during their vacation and selective periods, are offered in the department.

THIRD YEAR

***731. Junior Section in Otorhinolaryngology.** (1) WORK, LAWRENCE, McCABE, RITTER, LITTON, SMITH, BOLES, and KRAFT.

The class is divided into four sections, each of which meets for two hours, twice a week, for a six-week period. During the second six-week period, the section meets for two hours, once a week. The section classes meet for twelve continuous weeks with a total of thirty-six hours of instruction.

The first hour of instruction throughout the twelve weeks is devoted to lectures and symposiums pertaining to ear, nose, and throat examinations and diseases. Audio-visual materials (including motion pictures, slides, and TV exhibits) pertaining to all phases of otorhinolaryngology are given. During the second hour of the instruction period, the students are instructed in examination of the ear, nose, and throat. All necessary instruments (nasal speculac, ear speculac, mirrors, etc.) are furnished.

FOURTH YEAR

***841. Senior Section in Otorhinolaryngology.** (2-4) WORK, A. C. FURSTENBERG, McCABE, RITTER, PROCTOR, LITTON, and KRAFT.

Each section of six to eight students spends fourteen days in the Department of Otorhinolaryngology. During this period a minimum of eighty clock hours of instruction is given, in informal conferences, outpatient examinations, and ward rounds. Specifically the course consists of:

a) *Informal Conferences.* WORK, A. C. FURSTENBERG, McCABE, RITTER, PROCTOR, and LITTON.

Patients assigned to the students are presented for physical findings, differential diagnosis, and treatment.

b) *Outpatient Experience.* Staff.

The students are assigned to the outpatient clinic for the remaining time, where they examine patients and confer with senior members of the staff in regard to diagnosis and treatment.

c) *Ward Work.* Staff.

The students make an ear, nose, and throat examination as well as a complete physical examination of all new patients.

d) *Surgery.*

The students are assigned to surgery on a rotation basis.

e) Ward, clinic, and surgery assignments are made for those students assigned to the Veterans Administration Hospital.

PATHOLOGY

Professor A. James French, *Chairman*

Professors Abell, Hicks, and Hinerman

Professor Kerr (for Dentistry)

Associate Professors Friede, Hendrix, Pierce, and Wolter

Assistant Professors Abrams, Batsakis, Brody, Falk, Gikas, Lafler, Naylor, Oberman, Ram, and Schmidt

Instructor Midgley; Hartsuff (in Medical Technology)

Teaching Associates (NIH Cancer Research Fellows) Briere, Gray, Hilbert, Marshall, and Mull

Teaching Associates (Residents III) Appleman, Frishette, Markel, and Weaver
Lecturers Bryant, Holtz, Hulett, Kaump, and Oldt

Research Associates Bishop and D'Amato

The Department of Pathology at The University of Michigan Medical School was established by the appointment of Jonathan Adams Allen, M.D., as Chairman of the Department in 1850. Samuel Denton, M.D., 1854 to 1860, was the second Chairman of the Department; Alonzo Benjamin Palmer, M.D., 1860 to 1887, was the third; Heneage Gibbes, M.D., 1888 to 1895, fourth; George Dock, M.D., 1895 to 1903, fifth; Aldred Scott Warthin, M.D., 1903 to 1931, sixth, and Carl Vernon Weller, M.D., 1931 to 1956, seventh. Drs. Gibbes, Warthin, and Weller were the only chairmen of the department who did not have appointments as chairmen of other departments as well.

The department is housed in a four-story building which was completed in 1958. This building is connected to The University of Michigan Hospital, to the first unit of the Medical Science Building, and to the School of Nursing.

Clinical Laboratories in The University of Michigan Hospital are a function of the department as well as the curriculum in Medical Technology.

The Clinical Laboratories in the Veterans Administration Hospital in Ann Arbor, at the University of Michigan Student Health Service, and at Ypsilanti State Hospital are responsibilities of the Department of Pathology and are staffed by and from this department.

Teaching, research, and patient service in both clinical and anatomic pathology are our objectives and require some 60 professional personnel, including residents and research associates, as well as 150 technical and clerical assistants. Medical, dental, physical therapy, and medical technology students, as well as graduate and postgraduate students, are taught in the department.

Our three major research groups, or core programs, include the areas of electron, fluorescence, phase, polarizing, and dark-field microscopy; tissue culture; tissue and organ transplants; immuno- and biochemistry; germ-free (gnotobiotics) animal studies on inflammatory diseases, including hypersensitivity reactions; and physiologic and histologic changes in animals resulting from radiation of fetuses in utero. Funds to establish these groups came from the Pathology Diagnostic Fund and continued support comes from national granting agencies, private funds, and legislative appropriations.

Six to ten medical or other students are actively engaged in research efforts annually in the department. From this group we have been successful in attracting residents and research associates for our programs.

Our balanced programs in teaching, research, and patient service through clinical and anatomic pathology provide a complete laboratory service for training as well as for service to patients. The breadth and depth of coverage in general as well as special pathology is made possible by having all phases of clinical and anatomic pathology as our responsibility. We accept the challenge to provide the best possible in teaching, in research, and in service to patients.

COURSES FOR NONMEDICAL STUDENTS

405. Pathologic Technique. S.S. (f) FRENCH, GRAY, and staff.

Instruction in general and special pathologic technique, particularly for students of medical technology.

406. Blood Bank Procedures. S.S. (1) LAFLER and staff.

Instruction in general and special blood banking technique, particularly for students of medical technology.

410, 411. Practice of Medical Technology. I, II. MTuWThF 8-5 (16 each semester) FRENCH, HARTSUFF, and staff.

Practical experience in the Clinical Laboratories at The University of Michigan Medical Center, 40 hours a week for the fall and spring semesters, for students of medical technology only.

433. General Pathology for Students of Physical Therapy. I. TuTh 9. (2) LAFLER and staff.

A condensed presentation of the principles of general pathology.

SECOND YEAR

***620. General and Special Pathology.** I and II continuously. I, lec. MWF 8; II; lec. MWF 8; lab. MWF 1-4. (9) FRENCH, HINERMAN, ABELL, HICKS, LAFLER, NAYLOR, SCHMIDT, BATSAKIS, BRODY, and ABRAMS.

Lectures and demonstrations three hours each week for the year; the sophomore class is divided into four sections for the laboratory, meeting three hours a day, three days a week, second semester.

***625. Medical History and Philosophy.** II, MF 11-12, second eight weeks (1) FRENCH, GOSLING, and faculty.

Two hours each week. Lecturers from various disciplines explore the scientific and cultural influences which have contributed to the development of medicine and medical ethics.

630. General Pathology. I. (3) HENDRIX and staff.

Three hours a week. Covers the field of general pathology for dental students. Graduate students may be admitted by permission of the Chairman of the Department of Pathology, if they have completed courses in other basic sciences.

631. Laboratory Work in General Pathology. I. Three days a week, 1-4. (3) HENDRIX and staff.

A laboratory course supplementing Pathology 630. Taught in two sections running simultaneously and adapted especially for dental students.

THIRD YEAR

***720. Special Pathology.** I and II. (1.5) ABELL and staff.

One hour a week for additional special pathology. 25 lectures.

***721. Necropsies and Clinicopathologic Conferences.** I and II, Th 8-10. (1) FRENCH, HENDRIX, OBERMAN, and staff.

Postmortem examinations are made in all available cases. Junior students are required to attend fifteen necropsies, to assist at one necropsy, to submit complete protocols of the first two necropsies seen, and to attend the clinicopathological conferences. Two hours weekly are given to the clinicopathological conferences at which the clinical histories of necropsy cases are analyzed and compared with the pathological findings. Students participate in the presentation of conference cases. For this course, the junior class is divided into four sections. The conferences are attended by representatives of the clinical services concerned. The total number of necropsies for 1962-63 was 616.

GRADUATE AND POSTGRADUATE COURSES

The regular courses are open to graduate and postgraduate students as are special courses in technique and in the pathologic changes in special organs. Those wishing to take these courses *must have had the necessary preliminary training and must arrange with the Chairman of the Department of Pathology before registration.*

850. Application of Pathology to Clinical Medicine. Twelve weeks of I, all day. (No credit). BRODY and staff.

Basic science review intended for junior staff officers in participating hospitals.

851. Application of Pathology to Obstetrics and Gynecology. II. (No credit). ABELL and staff.

Basic science review intended for junior staff officers in participating hospitals.

852. Pathology of the Female Genitourinary Organs. (I) ABELL and staff.

853. Special Surgical Pathology. (I) Staff.

854. Genitourinary Pathology. (I) GIKAS and staff.

855. Special Pathology of the Eye. (I) HENDRIX, NAYLOR, and WOLTER.

856. Special Pathology of the Ear, Nose, and Throat. (I) Staff.

857. Orthopedic Pathology. (I) BRODY.

Pathology 850 to 857 are given at irregular periods, depending upon the demand.

858. Neuropathology. (I) HICKS and staff.

920. Research Problems. (To be arranged) FRENCH and staff.

Research work in any field of general or special pathology may be arranged for those who are properly qualified.

SUMMER SESSION

Pathology 920 is offered.

MEDICAL TECHNOLOGY

MEDICAL LABORATORY SCIENCE

A curriculum in medical technology, with joint instruction in the College of Literature, Science, and the Arts and in the Medical School, was established in 1943. This curriculum leads to the bachelor's degree and a certificate in medical technology. The successful completion of this course qualifies the student for a career in the medical laboratory field and for examination leading to registration as a medical technologist (M.T.) of the American Society of Clinical Pathologists (A.S.C.P.).

Students must meet the entrance requirements of, and be enrolled in, one of the schools or colleges of this University, usually the College of Literature, Science, and the Arts.

In following the degree curriculum the student must satisfy the general educational requirements of the College of Literature, Science, and the Arts in English composition, humanities, foreign language, and social sciences. Natural science requirements consist of specified courses in chemistry, physics, and

zoology. In order to complete required sequences of courses in four years, the prospective student should, if possible, consult the Counselor in Medical Technology before electing courses for the freshman year.

Students who hold the bachelor's degree and who have had training which includes all of the basic science requirements of the first three years of the curriculum may be admitted to the senior (clinical) year as candidates for the Certificate in Medical Technology. As clinical classes start *only in June*, prospective students should consult with the Counselor not later than the early part of the preceding semester.

Microbiology 503 and 524, Biological Chemistry 300, and Pathology 405, 406, 410, and 411 are offered by the Medical School as part of the prescribed curriculum.

A list of the required courses of the preclinical years can be found in the *Announcement* of the College of Literature, Science, and the Arts, and in the Medical Technology brochure.

For information relating to this course of study write to the Counselor in Medical Technology, Miss Florence Hartsuff, Instructor in Medical Technology in the Department of Pathology, 1220 Student Activities Building, The University of Michigan, Ann Arbor, Michigan.

PEDIATRICS AND COMMUNICABLE DISEASES

Professor James L. Wilson, *Chairman*

Professor and Dean, School of Public Health, Myron E. Wegman; Professor of Epidemiology, Thomas Francis, Jr; Professor of Nutrition, Calvin W. Woodruff

Professors Dickinson, Lowery, Towsley, and Watson

Associate Professors Allen, DeMuth, Hennessy, Oliver, and Stern

Assistant Professors Heyn, Howatt, Koeff, Liu, O'Connor, Sigman, Strang, and Sullivan

Instructors Bacon, Bandera, Baublis, I. Ertel, P. Ertel, Holland, Juberg, Kelsch, Owings, Perry, Pilliod, Robertson, Veldman, Veronelli, A. Weinstein, and E. Weinstein

Clinical Associates Brewer, Curtis, Deatrck, Graves, Hildebrandt, Law, McEachern, Pearson, and Saunders

Professor of Maternal and Child Health Donald C. Smith; Associate Professor of Biochemistry in Pediatrics Makepeace U. Tsao; Professor of Psychology Anna S. Elonen; Professor of Pedodontia Joseph T. Hartsook; Assistant Professor of Psychology Ralph M. Gibson; Clinical Assistant Professor Charles F. Weiss.

A course in pediatrics was first offered to medical students in the academic year 1905-6. The Department of Pediatrics became an independent department in the year 1920 and has since operated as one of the many clinical departments in the University Hospital. There are approximately 150 beds available for children in the University Hospital. In addition, members of the faculty of the Department of Pediatrics are responsible for operating the Department of Pediatrics at the Wayne County General Hospital, providing an additional 50 beds for children, plus new-born bassinets and premature-baby facilities.

The admission of patients to the University Hospital Department of Pediatrics is by referral from outside physicians. The facilities within the department include two children's wards, an infants' ward, an isolation unit, Rehabilitation

Center, Outpatient Clinic, and Well-Baby Clinic. Approximately 20,000 patients are seen annually in the Outpatient Clinic and 5,000 in the Well-Baby Clinic. The department operates its own clinical and research laboratories within the University Hospital and the Kresge Medical Research Building.

The teaching of pediatrics and communicable diseases is designed to acquaint the student with the fundamental problems of growth and development from birth through childhood and to familiarize him with the diseases peculiar to infants and children, including the acute communicable diseases.

The facilities of the children's wards, nursery, isolation unit, outpatient department, well-baby clinic, pediatric laboratories, and conference room are utilized for teaching.

THIRD YEAR

*732. Junior Pediatrics. (6.5) WILSON and staff.

Junior Section in Pediatrics. The entire Junior class is divided into four sections. One section is assigned to the Department of Pediatrics for slightly less than a three months period throughout the year. The students will devote full time to studies in this department except for the scheduled full class lectures from 1:00 to 2:00 P.M. daily.

While on Pediatrics the students will be assigned to the following services: The Nursery, the Toddlers' Ward, Older Children's Ward, Isolation Unit, Outpatient Department, and the Pediatric Services of the Wayne County General Hospital, including the Newborn Service.

The students will be responsible for complete studies of patients assigned to them, including the history, physical examination, and elementary laboratory examinations when such would serve as learning experiences. In addition, the student is expected to attend daily bedside teaching rounds on each of the services to which he is assigned, and to attend the 11:00 A.M. clinical conferences, at which time he will present patients and be prepared to discuss them with members of the senior staff. He will also be expected to attend a conference from 4:30 to 5:30 P.M. five days weekly at which time selected topics of a pediatric nature will be discussed.

Each student is required to write a thesis on a pediatric subject, after consultation with members of the teaching staff.

FOURTH YEAR

*832. Senior Selection in Pediatrics. WILSON and staff.

The Department of Pediatrics will offer elective courses providing clinical experience or research opportunities. One-, two-, or three-month assignments will be made on an individual basis with a tutorial association with one of our professional staff.

Clinical opportunities for students each period with the assignment of one student per period to each of the following:

Isolation Unit	Outpatient Department and
6 East—Children's ward	Special Clinics
6 Nursery—Infants' ward	Wayne County General Hospital
6 West—Older children	(Pediatrics Department)

Arrangements will be made as desired to rotate students through not more than three of the above services.

Research opportunities are available for five students each period with the assignment of one student per period to each of the following subspecialties:

Pediatrics Cardiology
Pediatrics Neurology
Respiratory Physiology

Pediatric Renal Diseases
Metabolic Studies in the
Newborn

PHARMACOLOGY

Professor Maurice Harrison Seevers, *Chairman*.

Professors Brody, Carr, and Domino

Associate Professors Beck, Bennett, Cafruny, and Swain

Assistant Professors Cochran, Deneau, Mellett, and Schuster

Instructors Alpert, Baird, Hudson, Hug, Lucchesi, and Yanagita

Extramural Lecturer Muehlberger

Lecturers Bratton and Chenoweth

Postdoctoral Fellows Akera, Chipps, Inoki, Katsuda, Muskovitch, Rosecrans, Villarreal, Weiss, and Yamamoto

Predoctoral Research Fellows Bernardini, Carlson, Davis, Dean, Diamond, Gebber, Gibb, Johnson, Levin, Piperno, Quinn, Reinke, Ruddon, Small, Stickney, Valley, and Wolpert

John Jacob Abel occupied the first Chair of Pharmacology in the United States when it was established as a laboratory subject in the Department of Materia Medica and Therapeutics at The University of Michigan in 1890. The first American textbook in pharmacology was published by his successor Arthur R. Cushny, in 1899.

The Department of Pharmacology serves the University, offering undergraduate instruction in medicine, pharmacy, and nursing, and graduate and postgraduate instruction for doctoral candidates and physicians.

The department occupies approximately 30,000 square feet of office and laboratory space for teaching and research in the Medical Science Building, part of which is an ultramodern animal facility including a large primate colony. Analytical chemical instrumentation for spectrophotometry, spectrophotofluorometry, gas chromatography and isotope scintillation counting are available for studies on the absorption, distribution, and metabolism of drugs and for the investigation of the biochemical mechanisms of drug action. Modern electronic stimulating and recording equipment is available for teaching and research in psychopharmacology, neuropharmacology, autonomic, cardiovascular, and renal pharmacology. Predoctoral assistantships and fellowships are available for graduate and medical students, and postdoctoral fellowships in general and in clinical pharmacology are available for qualified scientists and physicians.

COURSES FOR PHARMACY AND NURSING STUDENTS

210. Introductory Pharmacology and Therapeutics for Students in Nursing. II. (2) BENNETT and CAFRUNY.

Fundamentals of pharmacology as the foundation for further study and application in all clinical areas. Lectures.

304, 305. Introductory Pharmacology for Students in Pharmacy. I and II. (6) BRODY and staff.

Survey course intended to acquaint the pharmacy student with pharmacology as a cognate science. Not acceptable for graduate credit toward advanced degrees in this department. Two lectures a week first semester. Three lectures and four hours laboratory a week second semester.

COURSES FOR MEDICAL STUDENTS

***619. Introduction to Pharmacology. I, MW 9. (2)** SWAIN and staff.

Describes and defines the pharmacodynamic actions of the more important families of drugs on the mammalian organism. Lectures only.

***620. Principles of Pharmacology. Prerequisite: Pharmacol. 619 or permission of instructor. II, Lec. TuTh 8-9, lab. TuTh 9-12. (5)** SEEVERS and staff.

Lectures, laboratory exercises, demonstrations, and quizzes covering pharmacodynamics, pharmaceutical preparations, prescription writing, and techniques of medication. Pharmacology 620 is a prerequisite for all departmental courses except Pharmacology 305 and 619.

(Note: Medical students receive a single grade for Pharmacology 619 and Pharmacology 620. Graduate students receive separate grades for the two courses.)

ADVANCED AND RESEARCH COURSES

Permission of the instructor is a prerequisite for all courses in this group. Courses 601, 602, 603, and 604 will be given successively in one year and will be offered every other year. Courses 605, 606, and 607 will be given successively in one year and will be offered every other year alternating with the 601-604 sequence. Course 600 will be offered every year and is a prerequisite for courses 601-607.

600. Theoretical Basis of Drug Action. Prerequisite: Pharmacology 305 or 620 or the equivalent. II. (2) BENNETT, DENEAU, and MELLETT.

601. Autonomic Nervous System Pharmacology. I, two hours a week, second eight weeks. (1) BECK.

602. Neuro- and Psychopharmacology. II, two hours a week, second eight weeks. (1) DOMINO.

603. Renal Pharmacology. II, two hours a week, first eight weeks. (1) CAFRUNY.

604. Cardiovascular Pharmacology. I, two hours a week, first eight weeks. (1) SWAIN.

605. Chemotherapy. I, two hours a week, first eight weeks. (1) CARR.

606. Drug-Enzyme Interaction. I, two hours a week, second eight weeks. (1) BRODY.

607. **Detoxication Mechanisms.** II, two hours a week, first eight weeks. (J) MELLETT.
608. **Endocrine Pharmacology.** II, two hours a week, second eight weeks. (J) DENEAU.
- 641, 642. **Research** 641, I; 642, II. (To be arranged) Staff.

SUMMER SESSION COURSES

Pharmacology 620 and 621 cover the work required for medical students in this subject. *Prerequisite:* Biol. Chem. 511, Physiol. 515 or their equivalent. Students enrolled in Pharmacology 620 and 621 will not be permitted to take other summer session courses. Students coming from other schools should ascertain by correspondence that their training is adequate before coming to the University for these courses.

620. Principles of Pharmacology. (5) SEEVERS and staff.

Establishes the pharmacological basis for therapeutics; includes the principles of drug administration, pharmacodynamics, chemotherapy, and toxicology as applied to the principal drugs used in modern medical practice.

621. Laboratory Pharmacology. (2) SEEVERS and staff.

Supplements by actual observation in the living animal and man the principles of pharmacology as outlined in Pharmacology 620.

641. Research. Credit and hours to be arranged, SEEVERS, CARR, DOMINO, DENEAU, BECK, BRODY, SWAIN, CAFRUNY, BENNETT, and MELLETT.

PHYSICAL MEDICINE AND REHABILITATION

Professor James Weaver Rae, Jr., *Chairman*

Associate Professors Bender, Koepke, and Smith

Instructors Becker, Christopher, Cuthbertson, Hilleboe, and Wilson

The Department of Physical Medicine and Rehabilitation was organized in the Medical School in 1950, with responsibilities in teaching, service, and research. The residency training program was established the same year. In 1952 the Curriculum in Physical Therapy for the training of physical therapists was offered jointly by the department and the College of Literature, Science, and the Arts. The department consists of medical, physical therapy, and occupational therapy sections. Social, psychological, and vocational services are also available to orient the student to the total rehabilitation needs of the physically disabled.

Approximately 30,000 square feet of space located on the third level of the main building, University Hospital, is utilized for departmental functions. The most modern facilities and equipment are available for medical diagnosis, electromyography, physical treatment, functional training, psycho-social adjustment, and vocational planning and placement. An inpatient ward, outpatient service, rounds, conferences, amputee and brace clinic services are utilized for teaching.

Undergraduate medical traineeships, up to three months per academic year, are available to all medical students during vacation periods who wish a learning experience in clinical service and research in physical medicine and rehabilitation.

The Department of Physical Medicine and Rehabilitation offers opportunities during the senior selective period for clinical experience and/or research. One-, two-, or three-month assignments may be made on an individual basis.

***731. Physical Medicine.** (1.5) BENDER, CHRISTOPHER, KOEPKE, RAE, and SMITH.

Lectures and clinical demonstrations for Junior class sections. Emphasis is placed on describing the role of physical medicine and rehabilitation in the management of physical disabilities. The student is oriented to the equipment used, diagnostic and therapeutic procedures available, and the general philosophy of rehabilitation.

PHYSICAL THERAPY

A curriculum* in physical therapy is offered jointly by the College of Literature, Science, and the Arts and the Medical School. The full curriculum may be accomplished in eight semesters, plus an eight-week summer session following the junior year and a full summer of clinical work following the senior year. Successful completion of the program leads to the degree of Bachelor of Science and to the Certificate in Physical Therapy. Graduates are qualified for membership in the American Physical Therapy Association and for examination leading to registration with the American Registry of Physical Therapists.

In following the degree curriculum, the student must be enrolled in and must satisfy the general educational requirements of the College of Literature, Science, and the Arts in English composition, mathematics or philosophy, foreign language, and literature or arts appreciation. Specified courses in chemistry, mathematics, physics, zoology, physiology, psychology, and sociology fulfill the requirements in the natural and social sciences.

Graduates of colleges or universities who possess the proper prerequisite training may be admitted to the professional curriculum as candidates for the Certificate in Physical Therapy but not the degree. This period of training, which is composed of didactic, laboratory, and clinical training, begins only in June.

Courses offered by the Medical School as part of the prescribed curriculum are Physiology 301 and 302 (junior year), Anatomy 430, Pathology 433, Kinesiology, Theory and Technique of Physical Therapy, Massage, Muscle Testing, Ethics Administration and Orientation, Electrotherapy, Therapeutic Exercise I and II, Social and Emotional Factors in Disability, Orientation to Clinical Medicine I and II, Physical Medicine Applied I and II, and Clinical Training I and II.

For information relating to this course of study, write to the Director of Admissions, Student Activities Building, University of Michigan, Ann Arbor, Michigan.

* Approved by the Council on Medical Education and Hospitals of the American Medical Association.

PHYSIOLOGY

Professor Horace Willard Davenport, *Chairman*

Professors Alpern, Bean, Bohr, Brassfield, Gerard, Jochim, Lawrence, and Wilde

Associate Professors Cohen, Fritz, Jacquez, and Rutledge

Assistant Professors Abbrecht, Barr, Conway, Fusco, Malvin, Ranck, Rondell, Shirer, Steinberger, and Vander

Instructor Storey

The Chair of Physiology at The University of Michigan was founded in 1881, and it is therefore the country's second oldest, being preceded only by Harvard. Its first occupant was Henry Sewall, trained at Johns Hopkins by Newell Martin and in Europe by Kuhne and Langley. At Michigan, Sewall demonstrated the principle of antitoxin formation by showing "that repeated inoculation of pigeons with sub-lethal doses of rattlesnake venom produces a continually increasing resistance towards the injurious effects of the poison without apparent influence on the general health of the animals." He also showed that the depressor nerve is stimulated by increasing arterial pressure. Sewall resigned because of ill health in 1889, and he was succeeded briefly by William H. Howell (1889-92), who subsequently migrated to Harvard and Johns Hopkins. Warren P. Lombard, who had been educated at Harvard and trained in physiology by Ludwig at Leipzig, was Professor of Physiology from 1892 to 1923. He established a modern department well equipped for teaching and research, and he gave the nation's first laboratory course in physiology for medical students. Lombard's most distinguished pupil, Carl Wiggers who had a long career as teacher and researcher in cardiac physiology, taught at Michigan from 1905 to 1911. Lombard was succeeded by Robert Gesell, who was Professor of Physiology until 1954. Under Gesell, whose chief research interest was the control of respiration, the department trained many physiologists who are now professors in other Universities.

COURSES FOR OTHER THAN MEDICAL STUDENTS

The undergraduate program in physiology is designed to meet the requirements of many classes of students: those preparing for a career as teachers or investigators in the biological sciences, as well as for those desiring a knowledge of physiology as part of a liberal education.

101. Introduction to Human Physiology. *No prerequisites.* I. Lec. MWF 11. Conf., arranged. (3) Fusco and staff.

Planned for those with little or no background in the sciences and designed to acquaint the student with the principles and fundamentals of physiology, with emphasis on the functioning of the human body. Lectures and conferences. (Not open to students who have taken Physiology 102).

This course is acceptable in meeting the natural science distribution requirements.

102. Principles of Human Physiology. *No prerequisites.* I. Lec. MWF 11, lab. M or W, 1-5. (4) Fusco, Barr, and staff.

An analysis of physiological principles, with emphasis on the interactions of organ systems and the co-ordination of their functions. Lectures, conferences, and laboratory. The laboratory is co-ordinated with the lecture and consists of

exercises designed to acquaint the student with the experimental method, and to illustrate physiological principles, mechanisms, and processes. (Not open to students who have taken Physiology 101).

This course is acceptable in meeting the natural science distribution requirements of College of Literature, Science, and the Arts, and when offered in conjunction with Zoology 101 or Psychology 100 and 110, constitutes a laboratory sequence in biology.

121. Elementary Physiology Laboratory. I. WF 1-4. (2) STEINBERGER and staff.

Beginning laboratory work on the principles of physiology, primarily for students of pharmacy.

301. Human Physiology. I. MWF 10. (3) STOREY and staff.

Lectures and recitations, particularly for students of physical therapy.

302. Human Physiology Laboratory. I, WF 1-5. (3) STEINBERGER, FUSCO, and staff.

Laboratory work accompanying Physiology 301 for students of physical therapy.

304. Physiology of Muscular Exercise. II, MWF 11. (3) BEAN, BRASSFIELD, and staff.

Lectures and conferences on assigned reading. Open to those who have taken Physiology 101 or 601.

306. Problems in Physiology. I and II. (1-4) Prerequisite: permission of instructor. Staff.

Directed readings or investigations in a major area of physiology for advanced undergraduates.

501. Fundamentals of Physiology. I or II. (2) VANDER. Offered off-campus. An introduction to the principles of physiology for teachers.

601. Human Physiology (Lectures). Prerequisite: Biol. Chem. 102 or 522 or equivalent, Microscop. Anat. 525 or equivalent. I. (3) STOREY and staff.

602. Human Physiology (Laboratory). Prerequisite: Physiol. 601. I. (3) STEINBERGER and staff.

COURSES FOR MEDICAL STUDENTS

***515. Principles of Physiology. II of first year, MWThF 11, MW 1-5 (lab first eight weeks), MTuWF 1-5 (lab last eight weeks.) (8) DAVENPORT and staff.**

Lectures, laboratory, and conferences comprising a systematic exposition of physiology for medical and qualified graduate students.

ADVANCED RESEARCH COURSES

801. Use and Care of Laboratory Animals. Prerequisite: Physiol. 515 or permission of instructor. I. (2) COHEN.

802. Gastroenterology. Prerequisite: Physiol. 515 or permission of instructor. (2) DAVENPORT.

803. Mechanisms of Vision. Prerequisite: permission of instructor. I (alternate years). (2) ALPERN.
Same as Psychology 735.

- 804. Metabolic Endocrine Relations.** *Prerequisite:* Biol. Chem. 511, Physiol. 515, and permission of instructor. I and II. (2 each).
- 805. Advanced Neurophysiology.** *Prerequisite:* Physiol. 515 and permission of instructor. I and II. (2 each).
- 806. Cardiovascular Regulation.** *Prerequisite:* Physiol. 515 and permission of instructor. I and II. (2 each).
- 807. Ion Transport.** *Prerequisite:* Physiol. 515 and permission of instructor. I and II. (2 each).
- 808, 809. Introduction to Research.** *Prerequisite:* Physiol. 515 and permission of instructor. I and II. (To be arranged).
- 810. Physiology of Hearing.** *Prerequisite:* Physiol. 515. I in even-numbered years. (2). Offered jointly by Physiology and Otorhinolaryngology. LAWRENCE from Otorhinolaryngology.
Admission only on consultation. A series of seminars covering the factors contributing to the sensitivity of the ear and the basic physiology of the metabolic processes and neural pathways.
- 811. Electrophysiology of Cells.** *Prerequisite:* Physiol. 515 or permission of instructor. To be arranged. (2) BARR.
- 812. Renal Physiology.** *Prerequisite:* Physiol. 515 and 831, or permission of instructor. I. (2). WILDE. Offered in alternate years.
- 819. Bioengineering Physiology.** *Prerequisite:* differential equations and permission of instructor. II. (5) ABBRECHT.
- 821. Seminar.** I and II. (No credit).
- 831. Cellular Physiology.** I. (3) Staff.
A course of lectures and conferences covering the general physiological properties of cells. Required of all graduate students in physiology early in their graduate work.
- 931. Research.** I and II. (To be arranged).

PSYCHIATRY

Professor Raymond Walter Waggoner, *Chairman*

Professors Bagchi, Elonen, Finch, Frohlich, Gerard, Hicks, Miller, and Rapoport

Associate Professors Harrison, Hendrickson, Holmes, Kooi, Richardson, Schmale, Wallner, and Watson

Assistant Professors Bostian, Cain, Cross, Friede, Kempf, Moore, Pollard, Schrager, Selzer, Westman, and Zeigler

Instructors Arthur, Carek, Ging, Hess, Juracsek, McDermott, Pearson, Reinhart, Schaefer, Siegel, Van Houten, Wood, and Zrull

The first teaching of psychiatry in the University of Michigan Medical School was under Doctor William J. Herdman of the Department of Anatomy, who became Professor of Nervous Diseases and Electrotherapeutics in 1890. Special lectures in mental diseases were given by superintendents of several of the mental hospitals in Michigan until 1901 when, through the efforts of Doctor Herdman, a legislative appropriation for a Psychopathic Hospital was made.

This was completed and formally opened in 1906 and was the first psychopathic hospital in association with a university in this country. Dr. Albert M. Barrett was appointed Professor of Psychiatry in 1907 and was the first full-time professor and chairman of such a department. In 1937 money for the first of the present units of the department was appropriated which led to the opening of the Neuropsychiatric Institute in 1939. Act 85 of Public Acts of 1937 established the Institute and a new program from which came emphasis on the integration of psychiatry and general medicine. In 1948 the Veterans Readjustment Center, a unit of forty-seven beds designed for Michigan war veterans but not associated with the Veterans Administration, was opened. Its functions were terminated August 31, 1962.

In 1955, a Children's Psychiatric Hospital was established, a fifty-four bed psychiatric unit of a large general children's hospital, the first of its kind in this country; a day care program became operative in 1962. The Mental Health Research Institute was established in the Department of Psychiatry in 1955 and in 1959 occupied its own building. In 1956 the Adolescent Inpatient Psychiatric Unit was opened. There is also an outpatient Psychiatric Unit in the Outpatient Building.

The Department of Psychiatry functions, in co-operation with the Department of Mental Health in Michigan, in the training of psychiatrists and other mental health personnel, as well as in research.

371. Neuropsychiatric Nursing. I, II, and S.S. (8).

Principles of nursing based upon the study of the dynamics of psychiatric disorders of children and adults.

***510. Psychiatry. I, Tu 11, Th 10-12. (3) FINCH, McDERMOTT, and MILLER.**

Three hours each week, of which there are two hours of lecture and one hour of seminar discussion. Introductory course in psychiatry including discussion of personality development, reaction patterns, psychopathology and behavioral sciences. A representative from medicine, surgery, or other clinical department participates in one session each week.

***620. Psychiatry. I, Th 9. (1) WATSON**

One hour each week. Clinical presentations with a discussion of the various psychoneuroses, psychophysiologic disorders, and personality disorders.

***730. Psychiatry. I. (1) FROHLICH and POLLARD.**

One hour each week. Discussion of the various adult and child psychoses, organic brain syndromes, and character disorders, illustrated by clinical case presentations.

***731. Psychiatry. I and II. (1.5) HARRISON, WATSON, KEMPH, WESTMAN, McDERMOTT, and ZRULL.**

Four hours each week for twelve weeks in junior year. Small group discussion of clinical problems of children and adults.

***841. Senior Subsection in Psychiatry. I and II. (2.4) SCHMALE.**

Students in groups of seven to nine have clinical assignments in Adult and Children's Outpatient Department for a two-week period. Instruction consists of group discussion, history taking, observation of diagnostic interviews, and individual supervision.

Senior Selective Period. I, II, and S.S. (1.5) DR. WAGGONER and staff.

Three month bloc for selected seniors. A variety of clinical and research activities in the psychiatric clinical units and the Mental Health Research Institute. By arrangement with Dr. Waggoner.

PUBLIC HEALTH

Professors Davenport, Francis, Getting, Magnuson, and Moore
Associate Professor Donabedian
Assistant Professor Hennessy

***620. Public Health and Preventive Medicine. II, TuTh 1, F 9. (3) DONABEDIAN, GETTING, and MOORE.**

Required for sophomore medical students. Three hours each week. A survey of preventive medicine and of modern public health practices, with particular reference to the practicing physician, Social and economic aspects of medical care organization. Introduction to statistical methods.

***730. Industrial Health. I. (1) MAGNUSON and staff of the Institute of Industrial Health.**

Required for junior medical students. One hour each week. A presentation of the symptoms, physical findings, diagnosis, and treatment of the occupational diseases. The physical and environmental etiological factors and their control are emphasized. The role of the physician in industry.

***731. Epidemiology. II. (1) FRANCIS, DAVENPORT, and HENNESSY.**

Required for junior medical students. One hour each week for sixteen weeks. The natural history of disease and disability in the population. Factors influencing their occurrence; investigation of disease by clinical epidemiology.

RADIOLOGY

Professor Fred Jenner Hodges, *Chairman*

Professors Holt, Lampe, and Whitehouse

Associate Professors Martel, Rapp, and Simons

Assistant Professors Bookstein, Fayos, and Kittleson

Instructors Considine, Gabrielsen, Gerras, Hilger, Lalli, Solari, Wiley, and Griewski

In 1913 James Garrit Van Zwaluwenburg, who became the first professor of roentgenology in 1917, developed clinical facilities for the diagnostic and therapeutic use of X rays in the basement of the Palmer Ward of the University Hospital on Catherine Street. This department flourished in these quarters until his death in 1922, and then under his successor, Dr. Preston M. Hickey, until greatly expanded quarters in the new University Hospital on Ann Street were occupied in the summer of 1925. At the time of Dr. Hickey's death in the fall of 1930, roentgenology at The University of Michigan had become firmly established as an outstanding training center for clinical radiology.

The third professor of roentgenology was appointed in April of 1931. The department's name was changed to Radiology in 1953 to more properly designate its activities. It now consists of three major divisions.

The diagnostic division, situated on the fourth level of the surgical wing of the University Medical Center, extending into the Outpatient Building, is arranged and equipped for the examination of large numbers of hospital and clinic patients. Outposts are maintained in Women's Hospital and the registration area of the Outpatient Clinic. The Preston M. Hickey Library contains books, periodicals, catalogued case material, and teaching roentgenograms.

The division of radiation therapy, known as the Alice Crocker Lloyd Radiation Therapy Center, is situated underground midway between the main Hospital and the Kresge Building. A wide range of X-ray therapy apparatus is available, and in addition there are two large Cobalt-60 units and one Cesium-137 source which provide radiation at high-energy levels. There are facilities for the employment of radium and certain of the isotopes which can be substituted for radium.

A division of radiation research is quartered in connection with the department's machine shop in the basement of the old Palmer Ward on Catherine Street. Diagnostic and therapeutic apparatus for research is located on the seventh level of the Kresge Building.

***731. Junior Section in Clinical Radiology and Radiation Therapy.** 12 weeks.

TuTh 2-4. (1.25) HODGES and staff.

Each of the four sections in the third-year class meets in the Department of Radiology for practical clinical instruction utilizing current case material. These conferences are designed to acquaint the student with the scope and importance of radiation methods in diagnosis and treatment. Throughout the regular school year postgraduate students will be accepted in the various sections of Radiology 731. For further particulars address the Director of Postgraduate Medicine.

841. Research Problems in Radiology. (2-6) HODGES and staff.

See Graduate School Announcement.

901. Postgraduate Course. HODGES and staff.

See Postgraduate Medicine section of this Announcement.

Selective study opportunities are available for fourth-year medical students.

SURGERY

Professor Charles G. Child, 3rd., *Chairman*

Emeritus Professors Badgley and Collier

Professors Haight, Kahn, Ransom, Schneider, Sloan, and Smith

Associate Professors Bailey, Berry, Coon, DeWeese, Hays, Lapides, Morris,

Taren, Vial, Wolfman, Zuidema

Clinical Associate Professors Campbell, Glas, and Thieme

Assistant Professors Berkley, Dingman, Fry, Harrison, and Stewart

Clinical Assistant Professors Bauer, Hill, Kraft, Lui, and Regan

Instructors Cerny, DeJonge, Feller, Grabb, Kahn, Kelley, Moon, O'Connor,

Schmidt, Turcotte, and Thompson

Clinical Instructors Breakey, Brown, Crook, Fellman, Kivi, Peterson, Ratliff,

Resto Soto, and Winkler

Consultant Crosby

Lecturer Mustard

Instructor in Veterinary Medicine and Surgery, Szadaly

Instructor in Bacteriology in the Department of Surgery, Haines

Assistant Professor in Biochemistry in the Department of Surgery, Iob

Instructor in Biological Chemistry in the Department of Surgery, Kowalczyk

Teaching Associates Alkema, Bizer, C. Bourne, R. Bourne, Correa, Davis, De-

long, Dow, Dubow, Elzinga, Entwistle, Ernst, Farhat, Fitz, Foley, Gaisford,

Kaufer, Keitzer, Kiblinger, Kindt, Kirsh, Korte, Kucera, Levin, Linden-

auer, McDonald, McQuiggan, Maxwell, Metten, Neill, Peller, Pickering,

Rodriguez, Rosene, Sargent, Schroeder, Siegel, J. Sloan, Sniderman, Stan-

ford, Tank, Trevino, Van Eenennaam, White

FACILITIES OF THE DEPARTMENT

All clinical and laboratory facilities of the Department of Surgery at the University Medical Center and at Ann Arbor Veterans Administration Hospital are available for the education of medical students in Surgery. These teaching resources include surgical wards, private floors, ambulatory clinics, emergency, recovery, and intensive care units, and operating rooms as well as various laboratories and diagnostic units. In addition numerous teaching assignments are made to the Surgical Services of the St. Joseph Mercy Hospital and of Wayne County General Hospital.

Patients serve as the primary stimulus for students to acquire education in the science and art of modern surgery. Clinical teaching and learning are organized to correlate and integrate previously acquired knowledge of the basic sciences in the diagnosis and treatment of surgical disease. The fundamental principles of surgery are elaborated by demonstrations, seminars, conferences, and clinics. Student learning is enhanced by assignment of patients in whose care the students assume an important and responsible role. Through study of patients, reading, and faculty conferences students are ever encouraged to develop the art of continuing self-education in the natural life history and treatment of surgical disease.

No formal attempts are made to teach the technical attributes of surgery. These are relegated in modern surgical training to postgraduate study during internship and residency. Medical students, however, assist at operations upon their own patients. This provides confirmation or refutation of preoperative diagnoses as well as close association with Surgical Anatomy, Pathology, and Physiology. Upon these rest the development of sound clinical judgment. Intimate association with patients during their immediate postoperative course and final convalescence provide abundant experience with the achievements, complications, and failures of modern surgery.

THIRD YEAR

***730, 731. Junior Clinical Clerkship in Surgery. (10.5).**

During his junior year each student serves a clinical clerkship of three months on the surgical wards or private floors of one of the University's Teaching Hospitals. Six weeks are devoted to General Surgery and three weeks each to Orthopedic Surgery and Urology. Contact with assigned patients during this time is continuing, direct, and responsible. The student participates in preoperative diagnosis, scrubs at operations, and assists intimately in postoperative care. In addition to patient care and study, students attend conferences, seminars, and clinics devoted to discussion of surgical disease. A course in Laboratory Research is available one afternoon a week during the year. Students are free to attend Surgical Grand Rounds and the Department's Death and Complication Conferences.

FOURTH YEAR

805. Surgical Anatomy. See Anatomy, page 37.***841. Senior Clerkship in Surgery. (6).**

During his senior year each student serves clerkships of two weeks each in Thoracic and Neurological Surgery. The organization and objectives of these clerkships are similar to those of the junior year. During the student's selective period a wide variety of courses in clinical surgery and surgical research are available.

INTERDEPARTMENTAL COURSES

***First-Aid Course.** I, first 8 weeks. WOLFMAN and faculty.

The course, entitled "The Initial Handling of the Injured Patient," consists of 8 one-hour sessions designed to introduce the freshman medical student to the principles of management of the acutely injured patient. The sections of general surgery, orthopedic surgery, and neurosurgery participate in the presentation of these lectures as well as the departments of anesthesia, otorhinolaryngology, and ophthalmology.

***Freshman Clinic.** 24 one-hour sessions.

The Freshman Clinics are based upon the presentation of patients whose problems demonstrate the applicability of the basic sciences to clinical practice. Each Clinic is scheduled for a time that correlates it with the current work of one or more of the first year courses. Such correlation is achieved by the joint planning of the basic science and clinical staffs.

***622. Clinical Science. II. (2).** BAUER, JUDGE, and staff.

This course is a responsibility of all of the clinical departments. It is organized by the Department of Internal Medicine. During the second semester of the second year, each student devotes approximately six hours a week for a total of eight weeks to instruction in the bedside evaluation of patients. Students are assigned patients on whom they obtain a history and carry out a complete physical examination; the patients are then presented to and discussed with their instructor. The course is co-ordinated with the course in Clinical Laboratory Diagnosis.

***625. Medical History and Philosophy. (1)** FRENCH, GOSLING, and faculty.

Two hours each week. Lecturers from various disciplines explore the scientific and cultural influences which have contributed to the development of medicine and medical ethics.

***Clinical Practice—Basic Science Integration. I and II.** Wednesday afternoon, for senior students. CARR, GUARINO, HUELKE, LIU, SWAIN.

The exponential growth of basic science increases the scope of medical practice, with parallel increase in demand on the physician's clinical art. This increasing demand for correlation of the knowledge from the laboratory and the wisdom from the bedside is the primary concern of this course. Each week a specific topic is discussed in useful detail by a group of panelists. The topics may range from auto accidents to chromosomal disease.

***Senior Selective Period.** In the senior year the class is divided into four sections. Classes run throughout the year, and each section rotates through four periods. One of the four rotations is designated as a selective period, during which the student may undertake an activity designed to enhance his medical education. This may take the form of a research project, work in a public health activity, a military medical assignment, or some other educational experience approved by the Committee on the Senior Selective Period. The selective period activity is required for graduation.

POSTGRADUATE MEDICINE

Professor John McFarland Sheldon, *Director*

Professor Harry Albert Towsley, *Associate Director*

Professors Samuel J. Behrman (Obstetrics and Gynecology) and Stuart M. Finch (Psychiatry)

Associate Professor George H. Lowery (Pediatrics and Communicable Diseases)

Instructor Jeremiah Turcotte (Surgery)

Instructor Neal A. Vanselow (Internal Medicine)

Mabel F. Kelly, Administrative Assistant; and Kenneth W. Copp, Program Co-ordinator

BRIEF REVIEW COURSES IN SPECIALIZED FIELDS— INTRAMURAL PROGRAM

In 1927 the Board of Regents approved the establishment within the Medical School of a Department of Postgraduate Medicine under the usual conditions governing a department of the Medical School. This action was taken in response to an appeal from the Michigan State Medical Society for opportunities for its members to continue their education under academic direction and control. The request of the Society was supported by the Wayne State University College of Medicine with the promise of the co-operation of its faculty in the development of a program of teaching. Dr. James D. Bruce was the first Director, serving until retirement in 1942, when Dr. Howard H. Cummings was appointed. In 1954, Dr. John M. Sheldon became head of the department.

The department is unique in that it serves as a liaison for postgraduate activities in the state of Michigan and the Director holds the chairmanship of the Postgraduate Medical Education Committee of the State Medical Society. The Committee is composed of representative members of the Society, the Michigan Department of Health, the Wayne State University College of Medicine, and the University of Michigan Medical School. The above mentioned organizations co-operate in a twice-yearly teaching program in eighteen cities located throughout the state, as well as in the correlation of graduate and postgraduate educational opportunities within the state.

Short, intensive courses in the various subdivisions of practice are given at the Medical Center throughout the year, and personal courses of varying length are arranged to meet the need and convenience of practicing physicians. The courses are designed to be of value both to general practitioners and physicians in special fields. In these short courses no attempt is made to prepare physicians for a specialty but rather to present a thorough discussion of the subjects listed, identifying the new procedures in practice with the underlying or fundamental principles of their operation. These educational opportunities in the Medical Center have recently been extended to Doctors of Osteopathy within the state.

The affiliation of nineteen hospitals within the state with the University in the decentralized residency training program embraces widespread teaching programs through a regular schedule of faculty members' visits to these hospitals and an eight-month basic science course at the Medical Center for residents from the hospitals.

All of these teaching activities for the interns, residents, and practicing physicians of the state extend the educational influence and usefulness of the University.

The following courses will be presented in 1964-65.

Anatomy (one day each week)	Second semester
Clinical Conferences (one or two days each month)	October-March
Clinical Internal Medicine (one day each week)	October-March
Clinical Topics (one evening each week)	February-June
Electrocardiography and Heart Diseases (one evening each week)	September-February
Psychiatry for Pediatricians (one afternoon each week)	February-May
<i>(Continuous Courses)</i>	
Infertility and Endocrinology	2 days
Internal Medicine	
Allergy	3 days
Diseases of the Blood	5 days
Diseases of the Heart	5 days
Electrocardiographic Diagnosis	5½ days
Endocrinology and Metabolism	5 days
Gastroenterology	5 days
Pulmonary Diseases	3 days
Recent Advances in Therapeutics	5 days
Rheumatology	3 days
Neurology, Clinical	2 days
Obstetrics and Gynecology	3 days
Ophthalmology	3 days
Otorhinolaryngology	3 days
Pediatrics	2 days
Psychiatry	2 days
Radioactive Isotopes, Clinical Use of	As arranged
Radiology, Diagnostic	3 days

Excellent library facilities are available to physicians enrolling in these courses. Members of the teaching staff will be glad to give assistance in special problems of practice.

Credit hours for these courses will be given to members of the Academy of General Practice.

Outlines of courses, dates, and fees are contained in special announcements. Qualified physicians may enroll for suitable periods. Arrangements to enroll in these courses may be made with the Department of Postgraduate Medicine, University Hospital, Ann Arbor, either by mail or through personal interview.

GRADUATE TRAINING OPPORTUNITIES

AFFILIATED HOSPITALS RESIDENCY TRAINING PROGRAM

The University of Michigan Medical School and the University Hospital are affiliated with several hospitals throughout the state for the purpose of assisting them with their residency training programs in internal medicine, surgery, and

obstetrics and gynecology. Assistance in the education program in these affiliated hospitals is provided in the following manner:

a) Visits by members of the University of Michigan Medical School faculty to each hospital.

The members of the faculty in the specialties for which the hospitals are affiliated make regularly scheduled visits for the purpose of assisting in their teaching program.

b) A course in the basic sciences and their clinical correlation at The University of Michigan.

The course is provided by the University faculty for residents from the affiliated hospitals in internal medicine, surgery, and obstetrics and gynecology.

Internal Medicine. At the end of one year of residency, the affiliated hospital selects the resident or residents to send to the University for the six-month course in the basic sciences in internal medicine and their clinical correlation. An additional three months is optional in the medical specialty clinics under the direction of the section chairman.

Surgery. Two programs are available for surgical residents according to the requirements of the American Board of Surgery.

a) The residents from a hospital approved for three years of training complete their first two years of residency in the affiliated hospital. The third year they may attend the nine-month course in the basic sciences and their clinical correlation at the University. An optional three months in any one of the surgical sub-specialties is available to them upon completion of the basic sciences. In this situation the year of study of the basic sciences and their clinical correlation has been accepted by the Board in lieu of one year of preceptorship as required of residents in category II of the American Board of Surgery.

b) The residents from a hospital approved for four years of residency, under a plan of mutual agreement between the education committees of the affiliated hospitals, the Department of Surgery, and the Department of Postgraduate Medicine, may be appointed in their third year as research fellows in the Department of Surgery at the University Hospital for a period not to exceed six months. During this time they are expected to conduct a research program that was started in the affiliated hospital and complete it at the University, utilizing the facilities of the laboratories, library, and supervision of the surgical staff. These residents are expected to take the review courses in anatomy, biochemistry, physiology, pharmacology, and such other courses deemed advisable by the chairman of the surgical residency program in the affiliated hospital.

Obstetrics and Gynecology. Residents who have completed three years of training in the affiliated hospitals may take the three-month review course in the basic sciences. The period is divided into blocks of two weeks each of gynecological endocrinology, physiology, pharmacology, biochemistry, and five weeks of gross anatomy. Pathology is offered concurrently during the twelve-week program.

Upon completion of the basic sciences course at the University, the residents in all three specialties return to their respective affiliated hospitals to complete their residency training.

While the resident from the affiliated hospital is attending the basic sciences course at The University of Michigan, tuition, maintenance, and laboratory fees are provided by the affiliated hospital, according to a mutual agreement between the University Hospital and the affiliated hospitals. It is recommended that the resident be given the regular hospital stipend for the rank which he has attained.

The following hospitals are affiliated for residency training:

<i>Name and Address of Hospital</i>	<i>Medicine</i>	<i>Surgery</i>	<i>Ob.-Gyn.</i>
Blodgett Memorial Hospital Grand Rapids, Michigan	-----	-----	
Bronson Methodist Hospital Kalamazoo, Michigan	-----	-----	
Butterworth Hospital Grand Rapids, Michigan	-----	-----	
Hurley Hospital Flint, Michigan	-----	-----	-----
McLaren Hospital Flint, Michigan	-----	-----	
Leila Y. Post Montgomery Hospital Battle Creek, Michigan		-----	
Mt. Carmel Mercy Hospital Detroit, Michigan	-----	-----	-----
Pontiac General Hospital Pontiac, Michigan	-----	-----	-----
Saginaw General Hospital Saginaw, Michigan	-----	-----	-----
St. Joseph Mercy Hospital Ann Arbor, Michigan	-----	-----	-----
St. Joseph Mercy Hospital East Grand Blvd. and Milwaukee Detroit, Michigan	-----	-----	
St. Joseph Mercy Hospital 900 Woodward Ave. Pontiac 19, Michigan	-----	-----	-----
St. Lawrence Hospital Lansing, Michigan	-----		
Sparrow Hospital Lansing, Michigan	-----		
St. Mary's Hospital Grand Rapids, Michigan	-----	-----	

The hospitals listed above provide rotating internships for medical school graduates with supervised teaching as outlined below.

1. Teaching rounds shall be conducted five days a week.
2. X-ray conference shall be held in affiliated service once weekly during the school year.
3. Clinical pathological conferences are required weekly but medical, surgical, and other departmental cases may be alternated.
4. In addition to the above, it is recommended that clinical conferences be held by the medical service, and clinical and autopsy review conferences be conducted by the surgical service.
5. During the surgical resident's fourth year he shall be given the responsibility of a fifteen- to twenty-bed ward or its equivalent. In the private hos-

pitals, he shall be allowed to perform certain operations while the private physician acts as first assistant and preceptor.

6. Each chief of service must be either a diplomate or a fellow of his respective board or college. When this requirement cannot be fulfilled, a visiting man with the above qualifications may be selected from the service to act as counselor and preceptor.

7. Members of the faculty of the University of Michigan Medical School periodically visit each of the affiliated hospitals. These teachers provide didactic discussions of subjects pertaining to the specialties for which the hospital is affiliated, clinical conferences, and teaching ward rounds for the interns and residents.

For further description of the character of internships available in these hospitals, please communicate directly with the superintendent of the hospital of your choice. Intern appointments in these hospitals are made in compliance with the regulations established by the Association of American Medical Colleges, the American Hospital Association, and the American Medical Association.

Basic science course. Three to twelve months are devoted to the study of the basic sciences and their clinical correlation at the University. These subjects are taught by the faculty members of the Medical School and are designed to help the physician prepare for his specialty board examination.

Master schedule for basic science course:

<i>Medicine and Surgery</i>	<i>Weeks</i>
Pathology	11
Microbiology and Immunology	2
Biostatistics	1
Endocrinology	2
Physiology	2
Pharmacology	2
Clinics (Medicine)	8
or	
Gross Anatomy (Surgery)	8
<i>Obstetrics and Gynecology</i>	
Endocrinology	2
Biochemistry	1
Physiology	1
Pharmacology	2
Gross Anatomy	3
Pathology	3

Physicians in good moral and ethical standing who are graduates of Class A medical schools and graduates of foreign medical schools approved by the Council on Medical Education and Hospitals of the American Medical Association may register for these courses.

Application must be received by June 1 and will be acted upon by July 1. The fee for physicians other than residents from affiliated hospitals is \$320 each semester. Address: Department of Postgraduate Medicine, W5610 University Hospital, Ann Arbor, Michigan.

EXTRAMURAL PROGRAM

The extramural phase of this program is carried on in co-operation with the Michigan State Medical Society, the Wayne State University College of Medicine, and the Michigan Department of Health. The teaching program is given in the fall and spring in eighteen centers of the state, selected with regard to professional population, hospital and laboratory facilities, and accessibility from neighboring communities. The subjects are selected by the Advisory Committee on Postgraduate Medical Education of the Michigan State Medical Society and include the newer concepts and procedures in practice, with due stress upon their relationship to the basic sciences. The teaching centers for 1964-65 are:

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Requests for information or programs should be addressed to the Department of Postgraduate Medicine, W5610 University Hospital, Ann Arbor, Michigan.

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Cincinnati General Hospital, Cincinnati, Ohio	
*Thomas Vincent Abowd, B.S., University of Notre Dame	Fostoria, Ohio
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John D. Bartlett, Jr., B.S.	Ann Arbor
University Hospital, Ann Arbor, Michigan	
*Robert Hawes Bartlett, A.B., Albion College	Cuyahoga Falls, Ohio
Peter Bent Brigham Hosp., Boston, Massachusetts	
Clyde Houghton Beck, Jr.	Royal Oak
Bellevue 1st Medical Division, New York, N.Y.	
Walter Michael Belenky, A.B., Harvard University	Detroit
Receiving Hospital, Detroit, Michigan	
James Allen Bennett, A.B., Greenville College	Dearborn
Oakwood Hospital, Dearborn, Michigan	
Ronald Merle Benson	Detroit
Sinai Hospital, Detroit, Michigan	
Raymond Charles Bernreuter	Saginaw
Hurley Hospital, Flint, Michigan	
*Charles John Berwald	Bessemer
St. Mary's Hospital, Duluth, Minnesota	
Kenneth John Betten	Grand Rapids
St. Mary's Hospital, Grand Rapids, Michigan	
Alexander Anthony Birch, Jr., B.S.	Clawson
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John Maloney Blakey, B.S.	Birmingham
William Beaumont Hosp., Royal Oak, Michigan	
Lynn Waldo Blunt	Ann Arbor
William Beaumont Hosp., Royal Oak, Michigan	
Gene Emery Bolles, B.S.	Ann Arbor
Colorado General Hospital, Denver, Colorado	
Gerald Jay Broock, A.B.	Dayton, Ohio
Bellevue 3rd 4th Surg., New York, N.Y.	
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Receiving Hospital, Detroit, Michigan	
*Daniel Joel Buchalter	Detroit
Grace-New Haven Community Hosp., New Haven, Conn.	
Vanessa Johnson Burtner, B.S., Pennsylvania State U.	Becarria, Pa.
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Lawrence Frederick Campbell	Grosse Pointe Woods
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Herbert Lionel Cares, A.B., Cornell University	Kings Park, N.Y.
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Ray Howard Clark, B.S., Michigan State University	Lincoln Park
St. Joseph Mercy Hospital, Ann Arbor, Michigan	
Joel Jay Cooper	Far Rockaway, N.Y.
Long Island Jewish Hospital, New York, N.Y.	
James William Copping, Jr., B.S., Western Michigan U.	Mt. Clemens
Receiving Hospital, Detroit, Michigan	
Thomas Henry Corbett	Benton Harbor
University Hospital, Ann Arbor, Michigan	
Monte Harold Courter	Flint
James Decker Munson Hosp., Traverse City, Michigan	
Nelson Warn Courtney, A.B., Kalamazoo College	Kalamazoo
Blodgett Memorial Hospital, Grand Rapids, Michigan	
Donald Kenneth Crandall, A.B., Albion College	Detroit
Bon Secours Hospital, Grosse Pointe, Michigan	
Roland Dean, B.S., Wayne State University	Detroit
Wayne County General Hospital, Eloise, Michigan	
Harvey John DeMaagd, A.B., Calvin College	Grand Rapids
St. Mary's Hospital, Grand Rapids, Michigan	
Tom Ryan DeMeester, A.B., Calvin College	Grand Rapids
Johns Hopkins Hospital, Baltimore, Maryland	
Don Arthur Dephouse	Muskegon
St. Mary's Hospital, Grand Rapids, Michigan	
Richard Edward Dickerson, B.S., Michigan State U	Detroit
St. Joseph Mercy Hospital, Ann Arbor, Michigan	
Kenneth Larry Doil, A.B., Central Michigan University	Midland
Chicago Wesley Memorial Hospital, Chicago, Illinois	
Eugene Alan DuBoff, A.B.	Omaha, Neb.
Los Angeles County Hosp., Los Angeles, Calif.	
Ellen Elizabeth Dugan, A.B., Vassar College	Scarsdale, N. Y.
Boston Floating Hospital, Boston, Massachusetts	
Ronald Roy Duvendack, B.S., University of Toledo	Toledo, Ohio
The Toledo Hospital, Toledo, Ohio	
Rodney Carlisle Dwyer, A.B., Albion College	Detroit
Midland Hospital, Midland, Michigan	
Paul Edward Dykema, A.B., Calvin College	Holland
Denver General Hospital, Denver, Colorado	
*Lynn Ellen Dykman	Grand Rapids
Highland-Alameda County Hospital, Oakland, Calif.	
John Hubert Edlund	Muskegon
Hackley Hospital, Muskegon, Michigan	
Cecil Wilbur Ely, Jr.	Saginaw
Midland Hospital, Midland, Michigan	
Edward Richard Farber, B.S.	Manhasset, N.Y.
Cincinnati General Hospital, Cincinnati, Ohio	
Hal Allan Farquhar	Detroit
St. Vincent's Hospital, New York, New York	
Kenneth Eugene Fellows, Jr.	Grand Rapids
U. of Oregon Medical Hosp., Portland, Oregon	
William James Fisher, A.B.	Detroit
Mt. Sinai Hospital, New York, N.Y.	

David Mollison Fitzgerald	Livonia
Naval Hospital, Great Lakes, Illinois	
William John Fors, Jr., A.B.	Dearborn
Blodgett Memorial Hospital, Grand Rapids, Michigan	
James William French	Battle Creek
University Hospital, Ann Arbor, Michigan	
Michael Arnold Friedman, A.B.	Great Neck, N.Y.
Mt. Sinai Hospital, New York, N.Y.	
William Henry Gaash, B.S.	Alpena
Naval Hospital, Chelsea, Massachusetts	
Kent Kay Gillingham	Ann Arbor
U.S. Air Force Hospital, Washington, D.C.	
Mary Elizabeth Green	St. Clair Shores
Bon Secours Hospital, Grosse Pointe, Michigan	
Larry Lee Hadley, B.S.	Bowling Green, Ohio
Akron General Hospital, Akron, Ohio	
John William Hall, A.B.	Saginaw
University Hospital, Ann Arbor, Michigan	
William Alexander Hamilton	Detroit
Receiving Hospital, Detroit, Michigan	
May F. Han	Birmingham
Wayne County General Hospital, Eloise, Michigan	
Robert Edward Hansen	Pasadena, Calif.
Good Samaritan Hospital, Cincinnati, Ohio	
Vickers Charles Hansen, B.S.	Manistee
Blodgett Memorial Hospital, Grand Rapids, Michigan	
David Kenneth Heaps, A.B., Albion College	Okemos
University Hospital, Ann Arbor, Michigan	
Dwight Walter Hecht	Mt. Clemens
Harbor General Hospital, Torrance, California	
Floyd James Herbertson, A.B., University of Colorado	Lakewood, Ohio
M.A., <i>ibid.</i> ; B.M.S. State Univ. of So. Dakota	
University Hospital, Ann Arbor, Michigan	
*Richard Paul Heuschele, B.S., Alma College	Alma
Midland Hospital, Midland, Michigan	
Gregory James Heyner	Detroit
Butterworth Hospital, Grand Rapids, Michigan	
Brian Loris Hotchkiss	Livonia
Blodgett Memorial Hospital, Grand Rapids, Michigan	
Thomas Michael Hudak, A.B.	Phoenix, Ariz.
University Hospital, Baltimore, Maryland	
Kenneth Raymond Hutchins	West Branch
Naval Hospital, Bethesda, Maryland	
William Henry Irving	Saginaw
Los Angeles County Hosp., Los Angeles, California	
Timothy Janeway	Pittsford, N.Y.
Cook County General Hospital, Chicago, Illinois	
Thomas Bruce Janter	Atlanta, Georgia
Grady Memorial Hospital, Atlanta, Georgia	
Donald John Jarzynski, A.B., Western Reserve U.	Cleveland, Ohio
Naval Hospital, Bethesda, Maryland	
Salvador Jimenez-Colon	San Juan, P. R.
Wayne County General Hospital, Eloise, Michigan	

Bruce Gordahl Johnson, A.B., Central Michigan University The Santa Monica Hospital, Santa Monica, California	Mt. Clemens
Jeffrey Alan Kahn Receiving Hospital, Detroit, Michigan	Detroit
Robert L. Kalember St. Mary's Hospital, Grand Rapids, Michigan	Bessemers
Anthony Steven Kasiborski Wayne County General Hospital, Eloise, Michigan	Grosse Ile
Thomas Chandler Kingsley, A.B., Williams College Los Angeles County Hospital, Los Angeles, California	Battle Creek
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*Michael Scott Leahy, B.S., Marietta College Midland Hospital, Midland, Michigan	Louisville, Ohio
John Arlon Ley University Hospital, Ann Arbor, Michigan	Grand Rapids
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David Israel Lipschutz Sinai Hospital, Detroit, Michigan	Detroit
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Edward Everette Lowe Oakwood Hospital, Dearborn, Michigan	Covert
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Vance Douglas MacDonald, B.S., Michigan Col. of Mining and Technology	Detroit
Sacred Heart Hospital, Spokane, Washington	
Gordon Michael Mather, B.S., University of Toledo St. Joseph Mercy Hospital, Ann Arbor, Michigan	Toledo
Roger Albert Mattson, A.B., Northern Michigan Univ. St. Mary's Hospital, Duluth, Minnesota	Ishpeming
Richard Allen McConnaughy Hartford Hospital, Hartford, Connecticut	Silver Spring, Md.
Timothy Malcolm McCormick Highland Alameda County Hospital, Oakland, Calif.	San Francisco, Calif.

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St. Joseph Mercy Hospital, Ann Arbor, Michigan	
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St. Joseph Mercy Hospital, Ann Arbor, Michigan	
Thomas James Miskovsky, A.B.	Chicago, Ill.
Wayne County General Hospital, Eloise, Michigan	
John B. Morrill	Sturgis
Hurley Hospital, Flint, Michigan	
*Louis Wells Munchmeyer, Jr.	Grosse Ile
U of Pennsylvania Hospital, Philadelphia, Pa.	
James Robert Murphy	Howell
Harper Hospital, Detroit, Michigan	
*Gordon Franklin Murray	Muskegon
Johns Hopkins Hospital, Baltimore, Maryland	
James William Myers	Pottersville
St. Joseph Mercy Hospital, Ann Arbor, Michigan	
Kenneth Harrington Musson	Lansing
James Decker Munson Hosp., Traverse City, Michigan	
Robert Park Neff, Jr.	Dowagiac
Los Angeles County Hospital, Los Angeles, Calif.	
*Mark Parr Owens	Detroit
Sinai Hospital, Detroit, Michigan	
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Saginaw General Hospital, Saginaw, Michigan	
Peter Charles Pairolero	Bessemer
St. Mary's Hospital, Duluth, Minnesota	
Philip Eugene Perkins	Lawton
Oakwood Hospital, Dearborn, Michigan	
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Columbia Hospital, Milwaukee, Wisconsin	
L. James Quinn, B.S.	Grand Rapids
St. Mary's Hospital, Grand Rapids, Michigan	
James Raymond Reif, B.S., Michigan State University	Vassar
Midland Hospital, Midland, Michigan	
James Mortimer Roberts	Grosse Ile
Harper Hospital, Detroit, Michigan	
Walter A. Robison	Dowagiac
Memorial Hospital, South Bend, Indiana	
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Blodgett Memorial Hospital, Grand Rapids, Michigan	
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St. Mary's Hospital, Grand Rapids, Michigan	
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Kaiser Foundation, San Francisco, California	
Paris E. Royo, A.B., U. of Calif. at Berkeley, A.M. <i>ibid.</i>	Colma, Calif.
Presbyterian Medical Center, San Francisco, Calif.	
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Harvey Ruskin	Royal Oak
University Hospital, Ann Arbor, Michigan	
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James Decker Munson Hosp., Traverse City, Michigan	

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Oakwood Hospital, Dearborn, Michigan	
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University Hospital, Ann Arbor, Michigan	
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Bellevue 3rd 4th Med., New York, N.Y.	
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Wayne County General Hospital, Eloise, Michigan	
*Harvey Vise Sparks, Jr.	Flint
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Robert James Spensley	Dearborn
Denver General Hospital, Denver, Colorado	
Jack Michael Stack, B.S., Michigan State U.	Frankfort
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St. Joseph Mercy Hospital, Ann Arbor, Michigan	
*Marion Cecelia Steinbauer, B.S., Michigan State U;	
M.S., Wayne State U.	Pasadena, Calif.
Los Angeles County Hospital, Los Angeles, Calif.	
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Wayne County General Hospital, Eloise, Michigan	
John Alvin Stryker	Holland
St. Mary's Hospital, Grand Rapids, Michigan	
Bruce Truman Stubbs, B.S., Central Michigan U.	Algonac
St. Joseph Mercy Hospital, Ann Arbor, Michigan	
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Memorial Hospital, Long Beach, California	
Joseph Lee Taylor	Hudson
Butterworth Hospital, Grand Rapids, Michigan	
Walter Morley Taylor, B.S., Montana State College	Birmingham
James Decker Munson Hosp., Traverse City, Michigan	
Leora A. Trivellin Traynor	Flint
University Hospital, Ann Arbor, Michigan	
Douglas Bower Van Brocklin	Owosso
James Decker Munson Hosp., Traverse City, Michigan	
Ronald Dale Vanden Brink, A.B., Hope College	Holland
Denver General Hospital, Denver, Colorado	
William John Venema, A.B., Kalamazoo	Kalamazoo
University Hospital, Ann Arbor, Michigan	
*John James Voorhees	Findlay, Ohio
University Hospital, Ann Arbor, Michigan	
Charles W. Waldron, B.S.	Midland
St. Joseph Mercy Hospital, Ann Arbor, Michigan	
Jerry Lee Waldyke, B.S., Calvin College	Zeeland
Blodgett Memorial Hospital, Grand Rapids, Michigan	

Keeling Alfred Warburton	Hardwick, Mass.
Wayne County General Hospital, Eloise, Michigan	
Frederick B. Watts, Jr.	Grosse Pointe
Harper Hospital, Detroit, Michigan	
Kenneth James Wegner	Midland
Milwaukee County Hospital, Milwaukee, Wisconsin	
Vernon Eulos Weldon	Harper Woods
University of California, San Francisco, Calif.	
Robert Edward Welke	Wyandotte
Receiving Hospital, Detroit, Michigan	
• James Howard Wells	Rocky River, Ohio
University Hospital, Ann Arbor, Michigan	
James Rolland Wheat	Allegan
James Decker Munson Hosp., Traverse City, Michigan	
Richard Town Wilcox	Allegan
Blodgett Memorial Hospital, Grand Rapids, Michigan	
Stephen Paul Wilensky	East Lansing
Bronx Municipal Hosp. Center, N. ,New York, N.Y.	
Robert C. Williams	Lakewood, Ohio
1 Surgical Tufts, Boston, Massachusetts	
Fred Smith Wright, A.B.	Milwaukee, Wis.
Johns Hopkins Hospital, Baltimore, Maryland	
Kirk Dean Wuepper	Midland
Philadelphia General Hospital, Philadelphia, Pa.	
Anthony James Yonkers	Muskegon
St. Joseph Mercy Hospital, Ann Arbor, Michigan	

SUMMARY OF STUDENTS

1963-64

Doctor of Medicine Candidates

Fourth year	174
Third year	180
Second year	198
First year	211
Total	763
Anesthetists	7
Postgraduates (1962-63)	
Intramural	2,698
Extramural	1,045
Total	3,743
Grand Total	4,513

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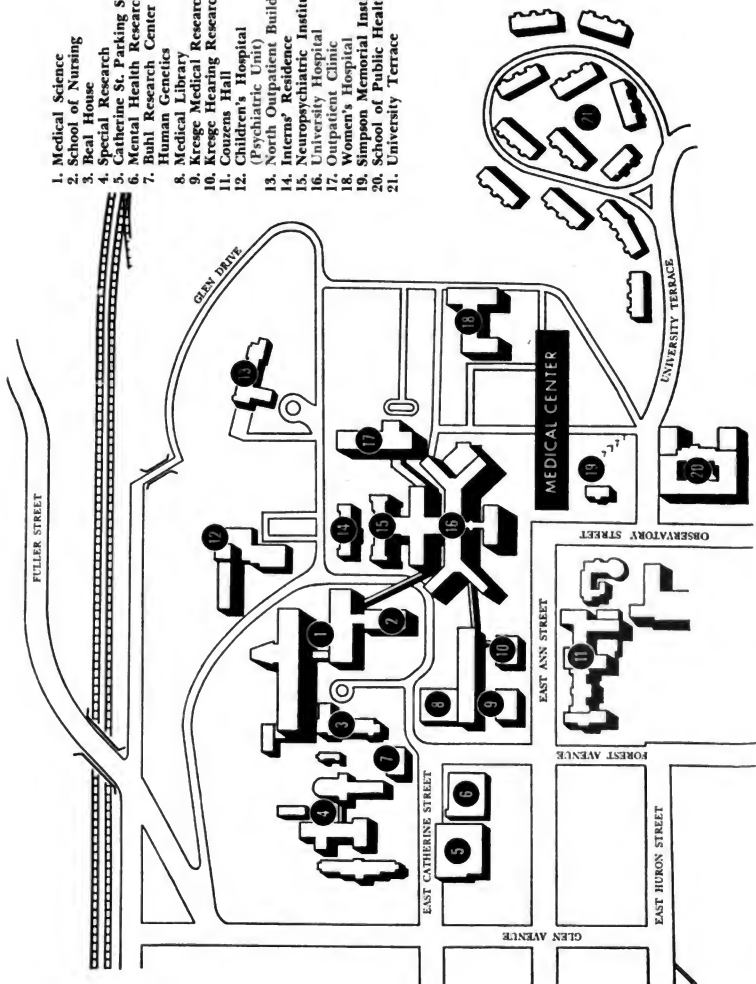
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1. Medical Science
2. School of Nursing
3. Beal House
4. Special Research
5. Catherine St. Parking Structure
6. Mental Health Research
7. Buhl Research Center for Human Genetics
8. Medical Library
9. Kresge Medical Research
10. Kresge Hearing Research Institute
11. Couzens Hall
12. Children's Hospital (Psychiatric Unit)
13. North Outpatient Building
14. Interns' Residence
15. Neuropsychiatric Institute
16. University Hospital
17. Outpatient Clinic
18. Women's Hospital
19. Simpson Memorial Institute
20. School of Public Health
21. University Terrace



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